DES
DEPARTMENT OF ENVIRONMENT AND SUSTAINABILITY
air quality | desert conservation PROGRAM | sustainability

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PART 70 OPERATING PERMIT

SOURCE ID: 00114

Nellis Air Force Base
4430 Grissom Avenue, Suite 101
Nellis AFB, Nevada 89191

ISSUED ON: June 15, 2021 **EXPIRES ON: June 14, 2026**

Revised on: May 1, 2025

Current action: Significant Revision

Issued to:
99TH Civil Engineer Squadron, Nellis Air Force Base
4430 Grissom Avenue, Suite 101
Nellis AFB, Nevada 89191

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NATURE OF BUSINESS:
SIC 9711, "National Security"
NAICS 928110, "National Security"

Issued by the Clark County Department of Environment and Sustainability/Division of Air Quality in accordance with Section 12.5 of the Clark County Air Quality Regulations.

Santosh Mathew, Permitting Manager

EXECUTIVE SUMMARY

Nellis Air Force Base (NAFB) is located in Clark County, Nevada, near the City of Las Vegas. NAFB is a major source located in the Las Vegas Valley (Hydrographic Area 212) and the Black Mountains Areas (Hydrographic Area 215). Hydrographic Area 212 is currently designated as attainment for all pollutants except ozone and it is subject to a maintenance plan for the CO and PM_{10} NAAQS. HA 212 was designated a moderate nonattainment area for ozone on January 5, 2023, for the 2015 standard and then designated a serious nonattainment area for ozone on January 21, 2025. Clark County has drafted or imposed new requirements to address this designation.. The Black Mountains Area is in attainment for all criteria pollutants.

NAFB is permitted as a Part 70 major source of NO_X and VOC, a synthetic minor source for PM_{10}, $PM_{2.5}$, CO, VOC, and HAP, and a minor source for SO_2. NAFB is a source of greenhouse gases (GHG). NAFB is a stationary source which, as of August 7, 1980, is being regulated under Section 111 or 112 of the Act (Asphalt Plants). Therefore, fugitive emissions are included in source status determination. All of the activities and emission units (EU) at NAFB are classified as Standard Industrial Code (SIC) 9711 and North American Industry Classification System (NAICS) Code 928110, "National Security."

The emission units and activities at NAFB base are divided into three geographic areas, which vary both in size and purpose. Area I (the Main Base) consists of the flight line and a wide variety of commercial and industrial use in support of the base's mission. Area II is located to the east of the Main Base and includes the munitions storage and the Red Horse Squadron complex along with its mineral processing, asphalt batch plant, and concrete batch plant activities. Area III is a 1.9 square mile portion to the north of the Main Base and includes the bulk fuels storage area, Security Police Squadron facilities, open space, and other support facilities.

The following table summarizes the source-wide potential to emit (PTE) for each regulated air pollutant:

Source PTE (tons per year)

	PM_{10}	$PM_{2.5}$	NO_X	CO	SO_2	VOC	HAP	GHG[1]
Storage Tanks/Fuel Dispensing/Fuel Loading	0	0	0	0	0	15.33	0.57	0
External Combustion	0.95	0.95	11.94	9.65	0.11	0.66	0.28	15,608.93
Internal Combustion	3.97	3.97	128.99	27.32	0.99	8.86	1.81	11,046.54
Hush House	2.15	1.89	46.41	23.13	15.17	4.60	0.61	8,126.00
Disturbed Vacant Areas/Unpaved Parking Areas	21.22	3.18	0	0	0	0	0	0
Mineral Processing	9.89	1.49	0.67	1.37	0.11	0.78	0.10	519.28
Paint Booths	0.40	0.40	0	0	0	17.13	9.08	0
Cooling Towers	2.78	2.78	0	0	0	0	0	0
Wood Working	6.14	6.14	0	0	0	0	0	0
Degreasers	0	0	0	0	0	0.02	0	0
Miscellaneous Chemicals	0	0	0	0	0	19.14	2.82	0
Totals	**47.50**	**20.80**	**188.01**	**61.47**	**16.38**	**66.52**	**15.27**	**35,300.75**

[1]GHG expressed as CO_2.

DAQ will continue to require the permittees to estimate their GHG PTE in terms of each individual pollutant (CO_2, CH_4, N_2O, SF_6, etc.) during subsequent permitting actions, and the corresponding TSDs will include these PTEs for informational purposes.

Clark County Department of Environment and Sustainability (DES) has delegated authority to implement the requirement of the Part 70 Operating Permit (Part 70 OP) program. This permitting action is based on the application for significant revision submitted on June 24, 2024, and the supplemental application on July 5, 2024.

Pursuant to AQR 12.5, all terms and conditions in all the Sections and the Attachments in this permit are federally enforceable unless explicitly denoted otherwise.

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Common Acronyms and Abbreviations

(These terms may be seen in the permit)

ANFO	ammonium nitrate-fuel oil
AQR	Clark County Air Quality Regulation
ATC	Authority to Construct
BLM	Bureau of Land Management
CFR	Code of Federal Regulations
CO	carbon monoxide
CO_2	carbon dioxide
CD	control device
DAQ	Division of Air Quality
DES	Department of Environment and Sustainability
DOM	date of manufacture
dscf	dry standard cubic feet
dscm	dry standard cubic meter
EPA	U.S. Environmental Protection Agency
EU	emission unit
g/gr	gram
HAP	hazardous air pollutant
hp	horsepower
kW	kilowatts
MIL-DTL	Military detail
MSP	Minor Source Permit
NAICS	North American Industry Classification System
NERC	North American Electric Reliability Corporation
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_X	nitrogen oxides
NRS	Nevada Revised Statutes
NSPS	New Source Performance Standard
NSR	New Source Review
OP	Operating Permit
$PM_{2.5}$	particulate matter less than 2.5 microns in diameter
PM_{10}	particulate matter less than 10 microns in diameter
PSD	Prevention of Significant Deterioration
PTE	potential to emit
SIC	Standard Industrial Classification
SO_2	sulfur dioxides
U.S.C.	United States Code
VMT	vehicle miles traveled
VOC	volatile organic compound

1.0 EMISSION UNITS AND APPLICABLE REQUIREMENTS

1.1 STORAGE TANKS / LOADING ARMS / FUEL DISPENSING

1.1.1 Emission Units

1. The stationary source covered by this Part 70 OP includes the emission units and associated appurtenances summarized in Tables 1.1-1, 1.1-2, and 1.1-3. *[AQR 12.5.2.3; NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); 114 Title V OP (10/28/13), (09/18/15), (04/30/20), (06/15/21), and (02/24/22)]*

Table 1.1-1: List of Emission Units – Fuel Dispensing

EU	Building	Make	Model No.	Serial No.	Capacity	Units	Fuel Type
J026-J034	890				9	dispensers	Gasoline
J020	1590	Fill-Rite	310 Series	B85680121	1	dispensers	Gasoline
J023	10511		C22R-GERATPNN-R-USA	11F646344	1	dispensers	Gasoline

Table 1.1-2: List of Emission Units – Loading Racks

EU	Building	Make	Model	Serial Number	Capacity	Units	Fuel Type
J008	891				1	racks	Gasoline

Table 1.1-3: List of Emission Units – Storage Tanks

EU	Building	EU Type	Make	Model	Serial No.	Capacity (gal)	Fuel Type
J004	890	UST	STI-P3	UTBD-3	26	25,000	Gasoline
J001	891	AST	Highland Tank	UTBD-2	P736547	20,000	Gasoline
J042	1051	IFR	Chicago Bridge & Iron			403,200	Jet Fuel
J043	1052	IFR	Chicago Bridge & Iron	LP 3000	N-927143	420,000	Jet Fuel
J044	1054	IFR	Chicago Bridge & Iron			810,000	Jet Fuel
J045	1055	IFR	Chicago Bridge & Iron	LDP 250P	M-732744	610,000	Jet Fuel
J002	1590	AST	Brown-Minneapolis Tank	LP1000	N-927127	500	Gasoline
J003	10512 (10511-1)	AST	Isom Brothers	RIVS-1230.1	L-825.015	2,000	Gasoline
J040	2336 (Revetments)	AST - IFR	Kinder Morgan	API Standard 650	22113396	420,000	Jet Fuel
J041	2336 (Revetments)	AST - IFR	Kinder Morgan	API Standard 650	22113397	420,000	Jet Fuel
J046	Fuel Hydrant (Bldg. 62121)	AST-IFR/Hydrant	Rocky Mountain Fabrication	API Standard 650	C-4026-02	420,000	Jet Fuel

EU	Building	EU Type	Make	Model	Serial No.	Capacity (gal)	Fuel Type
J047	Fuel Hydrant (Bldg. 62122)	AST-IFR	Rocky Mountain Fabrication	API Standard 650	C-4026-01	420,000	Jet Fuel
J048	Kinder Morgan	AST-IFR	Southwest Tank & Steel	12	16-028.01	420,000	Jet Fuel
J049	Kinder Morgan	AST-IFR	Southwest Tank & Steel	12	16-028.02	420,000	Jet Fuel

1.1.2 **Controls**

1.1.2.1 Control Devices

Control devices consist of Phase I vapor recovery systems.

1.1.2.2 Control Requirements

General Conditions

1. The permittee shall equip and operate each of the gasoline storage tanks (EUs: J001 and J004) with Phase I vapor recovery controls. *[ATC/OP, Modification 46, Revision 1 (11/17/08); 114 Title V OP Revision (04/20/16); and AQR 12.5.2.6(a)]*

2. The permittee shall install and operate all Phase I vapor recovery equipment according to certifications specified by the manufacturer, and shall maintain the equipment to be leak-free, vapor-tight, and in proper working order. *[AQR 12.5.2.6(a)]*

3. From October 1 to March 31 every year in the Las Vegas Valley, the Eldorado Valley, the Ivanpah Valley, the Boulder City limits, and any area within three miles of these areas, no gasoline intended as a final product for fueling motor vehicles shall be supplied or sold by any person; sold at retail; sold to a private or a municipal fleet for consumption; or introduced into any motor vehicle by any person unless the gasoline has at least 3.5 percent oxygen content by weight. *[AQRs 53.1.1 & 53.2.1]*

4. If a gasoline storage tank in the Las Vegas Valley, the Eldorado Valley, the Ivanpah Valley, the Boulder City limits, and any area within three miles of these areas, receives its last gasoline delivery with less than 3.5 percent oxygen content by weight before September 15, gasoline dispensed from that tank will be exempt from enforcement of Section 53.2.1 until the first delivery date after October 1. *[AQR 53.5.1.1]*

5. The permittee shall comply with the requirements of 40 CFR Part 63, Subpart BBBBBB, (EUs: J001, J004, and J008) and 40 CFR Part 63, Subpart CCCCCC (EUs: J002 and J003). *[AQR 12.5.2.6(a)]*

6. The permittee shall implement control technology requirements on gasoline storage tanks and dispensing equipment as follows: *[40 CFR 63.11116, 40 CFR 63.11117, 40 CFR 11085(b), AQR 102.5, and AQR 12.5.2.6(a)]*

    a. The permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Preventative measures to be taken include, but are not limited to, the following:

        i. Minimize gasoline spills.

ii. Clean up spills as expeditiously as practicable.

iii. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use.

iv. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

v. Only load gasoline into storage tanks a using submerged filling where the greatest distance from the bottom of the storage tank to the point of opening of the fill tube is no more than 6 inches.

Phase I Vapor Recovery

7. The permittee shall install, maintain, and operate the gasoline storage tanks (EUs: J001 and J004) with a Phase I vapor recovery system that meets the following requirements: *[AQR 12.5.2.6(a) and AQR 102.7]*

a. The Phase I vapor recovery system shall be rated with at least 95.0% control efficiency when in operation. This system shall be certified by an industry-recognized certification body, i.e., California Air Resources Board (CARB) or equivalent.

b. The Phase I vapor recovery system shall be a dual-point vapor balance system, as defined by 40 CFR Part 63.11132, in which the storage tank is equipped with an entry port for a gasoline fill pipe and a separate exit port for a vapor connection.

c. All Phase I vapor recovery equipment shall be installed, maintained, and operated in accordance with the manufacturer's specifications and certification requirements.

d. All Phase I vapor recovery equipment, including the vapor line from the gasoline storage tanks to the gasoline cargo tank, shall be maintained in good working order and vapor-tight, as defined by 40 CFR Part 63.11132.

e. All vapor connections and lines on storage tanks shall be equipped with closures that seal upon disconnect.

f. The vapor balance system shall be designed such that the pressure in the cargo tank does not exceed 18 inches water pressure or 5.9 inches water vacuum during product transfer.

g. The vapor recovery and product adaptors, and the method of connection with the delivery elbow, shall be designed to prevent the over-tightening or loosening of fittings during normal delivery operations.

h. If a gauge well separate from the fill tube is used, it shall be provided with a submerged drop tube that extends the same distance from the bottom of the tank as the fill tube.

i. Liquid fill and vapor return adapters for all systems shall be equipped with vapor-tight caps after each delivery.

j. A PV vent valve on each gasoline storage tank system shall be installed, maintained, and operated according to manufacturer's specifications, including:

i. A positive pressure setting of 2.5 to 6.0 inches of water and a negative pressure setting of 6.0 to 10.0 inches of water; and

ii. A total leak rate of all PV vent valves at the affected facility, including connections, that shall not exceed 0.17 cubic foot per hour at a pressure of 2.0 inches of water and 0.63 cubic foot per hour at a vacuum of 4 inches of water. *[AQR 12.5.2.6(a)]*

k. The vapor balance system shall be capable of meeting the static pressure performance requirement in 40 CFR Part 63, Subpart CCCCCC.

Fuel Delivery

8. The permittee shall comply with the requirements of each management practice during the unloading of cargo as follows. *[AQR 12.5.2.6(a) and AQR 102.8]*

a. All hoses in the vapor balance system shall be properly connected.

b. The adapters or couples that attach the vapor line on the storage shall have closures that seal upon disconnect.

c. All vapor return hoses, couplers, and adapters used in the gasoline delivery shall be vapor tight, as defined in 40 CFR Part 63.11132.

d. All tank truck vapor return equipment shall be compatible in size and form a vapor-tight connection with the vapor balance equipment on the gasoline storage tank.

e. All hatches on the tank truck shall be closed and securely fastened.

f. The filling of storage tanks shall be limited to unloading from vapor-tight gasoline cargo tanks carrying documentation onboard that the cargo tank has met the specifications of the U.S. Environmental Protection Agency's (EPA) Test Method 27.

1.1.3 **Limitations and Standards**

1.1.3.1 Operational Limits

1. The permittee shall limit the annual throughput for each storage tank, loading rack, and fuel dispenser to the throughputs listed in Tables 1.1-1, 1.1-2, and 1.1-3 during any consecutive 12-months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and 114 Title V OP (10/28/13), (09/18/15), (04/20/16), and (06/15/21)]*

2. The permittee shall store only the product in each storage tank, loading rack, and fuel dispenser as listed in Tables 1.1-1, 1.1-2, and 1.1-3. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and 114 Title V OP (10/28/13), (09/18/15), (04/20/16), and (06/15/21)]*

1.1.3.2 Emission Limits

1. The permittee shall not allow the actual emissions from each storage tank, fuel loading rack, and dispensing operation to exceed the PTE in Tables 1.1-4, 1.1-5, and 1.1-6, in any consecutive 12-months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); 114 Title V OP (10/28/13), (09/18/15), (04/30/20), (06/15/21), and (02/24/22); and AQR 12.5.2.3]*

Table 1.1-4: Throughput Limitations and PTE for Fuel Dispensing (tons per year)

EU	Type	Fuel	Annual Throughput (gal)	VOC	HAP
J026-J034	Fuel Dispensing	Gasoline	3,000,000	1.42	0.04
J020	Fuel Dispensing	Gasoline	30,000	0.08	0.01
J023	Fuel Dispensing	Gasoline	95,999	0.27	0.01

Table 1.1-5: Throughput Limitations and PTE for Fuel Loading Racks (tons per year)

EU	Type	Fuel	Annual Throughput (gal)	VOC	HAP
J008	Fuel Loading Rack	Gasoline	200,000	0.15	0.01

Table 1.1-6: Throughput Limitations and PTE for Fuel Storage Tanks (tons per year)

EU	Type	Fuel	Annual Throughput (gal)	VOC	HAP
J004	UST	Gasoline	3,000,000	5.04	0.15
J001	AST	Gasoline	3,000,000	6.00	0.17
J042	IFR	Jet Fuel	184,000,000	0.53	0.05
J043	IFR	Jet Fuel			
J044	IFR	Jet Fuel			
J045	IFR	Jet Fuel			
J002	AST	Gasoline	30,000	0.25	0.01
J003	AST	Gasoline	95,999	0.51	0.01
J040	AST - IFR	Jet Fuel	180,000,000	0.48	0.05
J041	AST - IFR	Jet Fuel			
J046	AST-IFR/Hydrant	Jet Fuel	43,680,000	0.16	0.02
J047	AST-IFR	Jet Fuel	43,680,000	0.16	0.02
J048	AST-IFR	Jet Fuel	42,000,000	0.14	0.01
J049	AST-IFR	Jet Fuel	42,000,000	0.14	0.01

2. The permittee shall not discharge into the atmosphere, from any emission unit in this section, any air contaminant in excess of an average of 20% opacity for a period of more than 6 consecutive minutes. *[AQR 26.1]*

1.1.4 Compliance Demonstration Requirements

1.1.4.1 Monitoring

General Conditions

1. The permittee shall monitor and record the daily combined throughput of gasoline in gallons through the gasoline loading rack (EU: J008) and the jet fuel storage tanks (EUs: J040 through J049). *[AQR 12.5.2.6(d)]*
2. The permittee shall monitor and record the fuel storage and dispensing system to determine if the components of the system are in compliance with the control requirements of this permit. Monitoring shall consist of:

    a. Inspecting daily for gasoline spills, and recording the times and dates the source became aware of a spill and cleaned the spill up; and

    b. Inspecting covers on gasoline containers and fill pipes after each respective delivery, and recording the date of fuel deliveries and corresponding inspections.

Phase I Vapor Recovery

3. The permittee shall conduct and record inspections for the Phase I Vapor Recovery System after each delivery to determine if components of the system are in compliance with the control requirements of this permit, as well as, but not limited to, the items in the following list. The permittee may limit inspections to once daily if multiple deliveries are received in a given day: *[AQR 12.5.2.6(d)(1) and AQR 102.10]*

   a. The condition of the spill bucket and presence of fuel or debris;

   b. The condition of the vapor cap and cap seal;

   c. The condition of the vapor adapter and adapter seal;

   d. The condition of the fill cap and cap seal;

   e. The tightness of the fill adapter;

   f. The condition of the fill tube seal; and

   g. The condition of the PV valve.

1.1.4.2 Testing

1. The permittee shall conduct Phase I vapor recovery system tests in accordance with the CARB-approved test procedures (as revised) listed in Table 1.1-7, as applicable (EUs: J001 and J004). *[40 CFR Part 63.11120; AQR 12.5.2.6(d), and AQR 102.9]*

Table 1.1-7: Vapor Recovery System Testing Procedures and Schedules

EU	Description	CARB Test Procedure	Standard	Frequency
J004	Pressure decay/leak: vapor control system including nozzles and underground tanks	TP-201.3	Initial: 2" wc Final: Referenced Value	Every three years
J001	Pressure decay/leak: vapor control system including aboveground tanks	TP-201.3B	Initial: 2" wc Final: Referenced Value	
J001 and J004	Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves	TP-201.1E	3.0 ± 0.5 inches H_2O Positive Pressure 8.0 ± 2.0 inches H_2O Negative Pressure Leakrate at +2.0 inches H_2O ≤ 0.17 CFH Leakrate at -4.0 inches H_2O ≤ 0.21 CFH Total Additive Leakrate from All P/V Valves ≤ 0.17 CFH at 2.0 inches H_2O	
	Flow Rate Test	CC_VRTP_1		

2. The permittee shall submit a DAQ-approved vapor recovery test notification form (available on the DAQ website) to schedule each vapor recovery test with the Stationary Sources Section supervisor at least 30 calendar days before the anticipated date of testing, unless otherwise specified in this permit.

3. Any prior approved scheduled vapor recovery system test cannot be canceled and/or rescheduled without the Control Officer's prior approval.

4. The permittee shall conduct Phase I Vapor Recovery System testing on affected gasoline dispensing equipment according to the following requirements:

    a. The permittee shall conduct an initial system test within 180 days of start-up of new equipment, or when the system's integrity has been affected by a modification or repair. Routine maintenance, including the replacement of hoses, nozzles, and efficiency compliance devices (e.g., bellows, face shield, splash guard, etc.), does not require an initial test.

    b. The permittee shall conduct and pass subsequent Phase I and Phase II tests on or before the anniversary date of the previous successful test as specified in Table 1.1-7.

    c. Each test may be witnessed by a DAQ inspector.

5. The permittee shall submit a Gasoline Dispensing Operation Certification of Vapor Recovery System Test Results Submittal Form (available on the DAQ website), along with associated test results, to the Control Officer after each test. The submittal form shall be:

    a. Complete and signed by the Responsible Official for the equipment being tested. The Responsible Official must certify that the test results are true, accurate, and complete.

    b. Submitted by mail, by fax, or in person.

    c. Submitted by the source, or by the permittee's testing company or consultant. However, the source is the responsible party and must ensure that the test report is delivered to DAQ within the applicable time frame.

6. If the source passes the vapor recovery system test, the permittee shall submit the test results report to the Control Officer within 60 days of the date of the test.

7. If the source fails a vapor recovery system test: *[Guidelines for Source Testing (9/20/2019)]*

    a. The permittee shall notify the Control Officer, by email or phone, within 24 hours of equipment test failure. If repairs can be made within five working days of the original scheduled test date, the permittee shall make the repairs and pass the required test(s).

    b. If the equipment cannot be repaired in five working days, the permittee shall make all necessary repairs and schedule a retest of the affected facility by submitting a new Test Notification Form to the Control Officer by mail, fax, or hand delivery no later than three business days before the new test date.

    c. After retesting (pass/fail), the permittee shall submit a Test Results Submittal Form (available on the DAQ website) and supporting test documents to the Control Officer within 15 days of completion.

d. The permittee shall continue retesting until the affected facility successfully passes all aspects of the vapor recovery system test.

8. The Control Officer may require the permittee to conduct any test after a failed vapor recovery system test in the presence of a DAQ representative.

9. The permittee shall comply with the general testing requirements identified in Section 3.0. *[AQR 12.5.2.8]*

1.1.4.3 Recordkeeping

1. The permittee is required to comply with the recordkeeping requirements of 40 CFR Part 63, Subpart CCCCCC. *[40 CFR Part 63.11125]*

2. The permittee shall create and maintain the following records, all of which must be producible on-site to the Control Officer's authorized representative upon request and without prior notice during the permittee's hours of operation: *[AQR 12.5.2.6(d)(2) and AQR 102.11]*

Inspections/Maintenance/General

a. Maintenance on distribution and control (i.e., Phase I and Phase II) equipment, including a general description of location and parts;

b. Date and time that distribution and/or control equipment was taken out of service;

c. Date of repair or replacement of distribution and/or control equipment;

d. Equipment inspections;

Daily Actions/Throughput

e. Date and time of gasoline deliveries;

f. Daily records of nonoperating days;

g. monthly, consecutive 12-months total product throughput for each storage tank in gallons (reported semiannually);

h. monthly, consecutive 12-months total throughput for the gasoline loading rack (EU: J008) (reported semiannually);

i. monthly, consecutive 12-months total throughput for the jet fuel storage tanks (EUs: J040 through J049) (reported semiannually);

j. daily throughput for the gasoline loading rack (EU: J008);

k. daily throughput for the jet fuel storage tanks (EUs: J040 through J049);

l. log of maintenance and/or repair of the tanks;

Emissions

m. Vapor recovery system testing results, if applicable (reported as required by Section 1.1.4.2 of this permit);

n. Deviations from permit requirements resulting in excess emissions (reported as required by Section 5.0 of this permit);

o. Deviations from permit requirements not resulting in excess emissions (reported semiannually);

p. Calendar year annual product throughput for each Dispenser (EUs: J020, J023, and J026-J034), loading rack (EU: J008), and fuel storage tank (EUs: J001 through J004 and J040 through J049) (reported annually); and

q. Calendar year annual emissions calculated for each emission unit in this section (reported annually).

3. A log book shall be used and shall be signed by the permittee at the completion of each inspection of the gasoline loading rack (EU: J008) and associated storage tanks (EUs: J001 and J004). Each detection of a liquid or vapor leak shall be recorded in the log. An initial attempt to repair the leak shall be made as soon as practicable, but, no later than 5 calendar days after the leak is detected. If repairs cannot be completed within 5 days, the permittee shall comply with 40 CFR 63.11089.c & .d. A section of the log book shall contain a list, summary description, or diagrams(s) showing the location of all equipment in gasoline service at the facility. *[AQR 12.5.2.6(d) and 40 CFR 63.11089]*

4. The permittee shall include in each record above, where applicable, the date and time the monitoring or measurement was taken, the person performing the monitoring or measurement, and the emission unit or location where the monitoring or measurement was performed. Each record must also contain the action taken to correct any deficiencies, when applicable.

5. The permittee shall comply with the general recordkeeping requirements identified in Section 4.0.

1.1.4.4 Reporting

1. The permittee must submit a Notification of Compliance for the gasoline loading rack (EU: J008) and associated storage tanks (EUs: J001 and J004) in accordance with 40 CFR 63.11086(f), unless the permittee meets the requirements of 40 CFR 63.11086(g). *[40 CFR 63.11086]*

1.2 EXTERNAL COMBUSTION

1.2.1 **Emission Units**

1. The stationary source covered by this Part 70 OP includes the emission units and associated appurtenances summarized in Table 1.2-1. *[AQR 12.5.2.3; NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); 114 Title V OP Revision (10/28/13), (09/18/15), (04/20/16), (10/19/17), (04/30/20), and (06/15/21); and Application for Part 70 OP Revision (11/22/22)]*

Table 1.2-1: List of Emission Units

EU	Building	Input Rating (MMBtu/hr)	Make	Model No.	Serial No.
RB024	20	1.75	RBI	FB 1750	120437366
RB661	98	1.5	Aerco	BMK 1500	G-21-0335
RB198	190	2.40	LAARS	RHCH2400NACF2EXX	A08 197950
RB650	190	2.00	AERCO	BMK 2000	G-15-1110
RB013a	199	2.5	Patterson-Kelley	C-2500	H906-11-6409
RB013b	199	2.5	Patterson-Kelley	C-2500	H906-11-6405
RB016	201	1.05	Rite	105W	29456
RB389	245	1.5	Patterson-Kelley	C-1500	H601-13-8969
RB390	245	1.5	Patterson-Kelley	C-1500	H601-13-8975
RB655	252	4.50	Weather-Rite	CAR 650HT	54128B
RB656	252	4.50	Weather-Rite	CAR 650HT	54128A
RB657	252	4.77	Weather-Rite	650HT	56799A
RB658	252	4.77	Weather-Rite	650HT	56799B
RB036	256	3.30	Weather-Rite	650HT	56190A
RB037	256	3.30	Weather-Rite	650HT	56190B
RB396	256	1.5	Patterson-Kelley	C-1500	H601-13-8970
RB397	256	1.5	Patterson-Kelley	C-1500	H601-13-8968
RB651	257	1.500	Raypak	H7-1505A	1709451637
RB402	259	2	Raypak	H7-2005	1303354199
RB403	259	2	Raypak	H7-2005	1303354200
RB040	262	2	Patterson-Kelley	N-2000-2	CL47-02-24302
RB406	282	2	Patterson-Kelley	C2000	M841-12-8830
RB411	285	1.5	Patterson Kelley	C1500H	H601-13-8971
RB414	292	1.5	Patterson Kelley	C-1500H	H604139027
RB419	312	1.5	Patterson-Kelley	Mach C-1500	H601-13-8972
RB421	324	1.8	Rite	180X	9797N9
RB149	334	1.35	RBI	DB1350	100851533
RB426	340	1.75	RBI	MB1750	11466794
RB427	340	1.75	RBI	MB1750	11466795
RB581	462	1.15	Modine	MDB127AC1375BB1CA5 BH2GH	861886-01-3112
RB065a	467	4	Patterson-Kelley	C-4000	K240-12-8806
RB659	467	4.00	Patterson Kelly	C-4000	K203-13-9024
RB077a	556	3	Patterson Kelley	C-3000	K943-12-8856
RB078a	556	3	Patterson Kelley	C-3000	K901-13-8985
RB079a	556	3	Patterson Kelley	C-3000	K940-12-8800

EU	Building	Input Rating (MMBtu/hr)	Make	Model No.	Serial No.
RB080	567	1.5	Patterson-Kelley	N-1500-2	CY02-06-28964
RB081	567	1.5	Patterson-Kelley	N-1500-2	CY02-06-28965
RB086	585	2	Patterson-Kelly	N-2000-2	CY30-07-31336
RB664	595	1.00	Patterson-Kelley	N1000-VX	FX08-22-42518
RB665	595	1.00	Patterson-Kelley	N1000-VX	FX08-22-42525
RB456	625	1.05	Patterson-Kelley	C-1050	W38-12-8764A
RB457	625	1.05	Patterson-Kelley	C-1050	W851-16-13172A
RB236	704	1.2205	Raypak	H2-1223	9810152937
RB460	704	1.63	Raypak	W1-1631	9810152936
RB473	807	1.5	Patterson-Kelley	C-1500H	H601-13-8973
RB482	868	3.025	Rupp Industries	RAM30	S85181A
RB493	1300	1.5	Thermal Solutions	EVCA-1500 BNI-UCC	6544953
RB494	1300	1.5	Thermal Solutions	EVCA-1500 BNI-UCC	6544952
RB495	1300	2	Thermal Solutions	EVCA-2000 BNI-UCC	6544954
RB496	1300	2	Thermal Solutions	EVCA-2000 BNI-UCC	6544955
RB112[1]	1301	2.392	Fulton	VMP-60	B42719742
RB113[1]	1301	2.392	Fulton	VMP-60	B42719741
RB114[1]	1301	2.392	Fulton	VMP-60	B42719730
RB620	1705	1	Raypak	WHP-1005	1109328742
RB621	1705	2	Patterson Kelly	C2000H	H846-15-12340
RB622	1705	2	Patterson Kelly	C2000H	H846-15-12342
RB623	1705	2	Patterson Kelly	C2000H	H846-15-12341
RB660	10148	1.728	Rupp Air	RAM30	S200230
RB135	10154	1.8	Lochinvar	CWN1796	C06H00184458
RB136	10154	1.8	Lochinvar	CWN1796	C06H00184459
RB652	10202	1.050	Patterson Kelley	C-1050	W812-18-14077
RB653	10206	1.680	Parker	40L	964610
RB516	61664	1.05	Patterson-Kelley	C1050	W845-12-8885A
RB662	7-11	1.50	Patterson-Kelley	N1500-VX	FY11-22-42564
RB663	7-11	1.50	Patterson-Kelley	N1500-VX	FY11-22-42563
RB654[2]	Various	<1.00	Various		
RB666	20	1.75	Patterson-Kelley	ST-1750	TBD

EU	Building	Input Rating (MMBtu/hr)	Make	Model No.	Serial No.
RB667	201	1.00	Patterson-Kelley	SC-1000	TBD
RB668	259	2.00	Patterson-Kelley	ST-2000	TBD
RB669	259	2.00	Patterson-Kelley	ST-2000	TBD
RB670	620	1.00	Patterson-Kelley	SC-1000	S100-23-02891
RB671	245	1.60	Greenheck	DGX-P227-H38-11	22487605
RB672	245	1.60	Greenheck	DGX-P227-H38-11	22487599

[1]These emissions units may combust either natural gas or diesel fuel.
[2]These emission units must each be less than 1.00 MMBtu/hr and are included in the combined total of 225 MMscf/yr of natural gas.

1.2.2 **Controls**

1.2.2.1 Control Devices

No add-on controls devices have been identified.

1.2.2.2 Control Requirements

1. The permittee shall combust only natural gas in all boilers/water heaters, except for those boilers listed in Conditions 1.2.2.2.2 and 1.2.2.2.3. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and AQR 12.5.2.6(a)]*

2. The permittee shall combust either natural gas or diesel fuel with less than 0.05 percent sulfur by weight in each of the three (3) dual fuel boilers located at Building #1301 (EUs: RB112 through RB114). *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and AQR 12.5.2.6(a)]*

3. The permittee shall operate and maintain all boilers/water heaters in accordance with the manufacturer's O&M manual for emissions-related components. *[AQR 12.5.2.6(a)]*

1.2.3 **Limitations and Standards**

1.2.3.1 Operational Limits

1. The permittee shall limit operation using #2 diesel fuel for each dual fuel boiler located at Building #1301 (EUs: RB112 through RB114) to 1,020 hours in any consecutive 12-months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

2. The permittee shall limit the total amount of natural gas consumed by the external combustion units to 225 MMscf in any consecutive 12-months. *[114 Title V OP Revision (10/28/13)]*

1.2.3.2 Emission Limits

1. The permittee shall not allow the actual emissions from the external combustion units to exceed the PTE listed below in Table 1.2-2, in any consecutive 12-months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08), and AQR 12.5.2.3]*

Table 1.2-2: Source PTE from External Combustion Units (tons per year)[1]

PM_{10}	$PM_{2.5}$	NO_X	CO	SO_2	VOC	HAP
0.95	0.95	11.94	9.65	0.11	0.66	0.28

[1]Based on a yearly facility cap of 225 million standard cubic feet of natural gas usage for natural gas-fired units.

2. The permittee shall not discharge into the atmosphere, from any emission unit, any air contaminant in excess of an average of 20 percent opacity for a period of more than 6 consecutive minutes. *[AQR 26.1]*

1.2.4 Compliance Demonstration Requirements

1.2.4.1 Monitoring

Visible Emissions

See Section 2.0.

Boilers, Water Heaters, and Fuel Burning Equipment

1. The permittee shall operate each dual fuel boiler located at building #1301 (EUs: RB112 through RB114) with a nonresettable hour meter to monitor the duration of operation while using #2 diesel fuel. *[AQR 12.5.2.6(d)(1)(B) and (C)]*

2. The permittee shall conduct tune-ups in accordance with the manufacturer's O&M manual, good combustion practices, and the department's *Guidelines for Source Testing (9/19/2019)*. (EUs: RB112 through RB114). *[40 CFR 63.11223(e) and AQR 12.5.2.6(d)]*

3. The permittee shall perform a tune-up once every 5 years (EUs: RB112 through RB114). *[40 CFR 63.11223(e)]*

4. The permittee shall inspect the burners, and clean or replace any components of the burners as necessary. The inspections may be delayed until the next scheduled unit shutdown, but must be conducted at least once every 72 months (EUs: RB112 through RB114). *[40 CFR 63.11223(b)(1) and 63.11223(e)]*

5. The permittee shall inspect the systems controlling the air-to-fuel ratios for each unit, as applicable, and ensure that they are correctly calibrated and functioning properly. The inspections may be delayed until the next scheduled unit shutdown, but must be conducted at least once every 72 months (EUs: RB112 through RB114). *[40 CFR 63.11223(b)(3) and 63.11223(e)]*

6. The permittee shall monitor monthly the amount of natural gas used in external combustion units on-site and record it in MMscf. *[114 Title V OP Revision (04/30/20)]*

7. The permittee shall conduct burner efficiency tests in accordance with the manufacturer's O&M manual and good combustion practices. Alternative methods may be used upon Control Officer approval (EUs: RB065a and RB659). *[AQR 12.5.2.6(d)]*

8. The permittee shall perform a burner efficiency test once each calendar year (EUs: RB065a and RB659). *[AQR 12.5.2.6(d)]*

9. The permittee shall not have to perform a burner efficiency test if the actual hours of operation are 0. To exercise this option, the permittee must install an hour meter and begin keeping written records before the start of the calendar year (EUs: RB065a and RB659). *[AQR 12.5.2.6(d)]*

1.2.4.2 Testing

1. No performance testing requirements have been identified for any emission unit in this section at this time.

1.2.4.3 Recordkeeping

1. The permittee shall create and maintain the following records, all of which must be producible on-site to the Control Officer's authorized representative upon request and without prior notice during the permittee's hours of operation: *[AQR 12.5.2.6(d)(2)]*

Inspections/Maintenance/General

a. Manufacturer's O&M manual for boilers;

Operational Limits

b. monthly, consecutive 12-month total amount of natural gas consumed by boilers (reported semiannually);

c. log of all external combustion emission units onsite (reported semiannually);

d. monthly, consecutive 12-month total hours of operation of the dual fuel boilers located in Building 1301, when powered by diesel fuel (EUs: RB112 through RB114) (reported semiannually);

e. records of any performance testing, boiler tune-ups, and boiler inspections.

Emissions

f. Deviations from permit requirements resulting in excess emissions (reported as required by Section 5.0 of this permit);

g. Deviations from permit requirements not resulting in excess emissions (reported semiannually); and

h. Calendar year annual emissions calculated for each emission unit in this section (reported annually).

2. The permittee shall include in each record above, where applicable, the date and time the monitoring or measurement was taken, the person performing the monitoring or measurement, and the emission unit or location where the monitoring or measurement was performed. Each record must also contain the action taken to correct any deficiencies, when applicable. *[AQR 12.5.2.6(d)]*

3. The permittee shall comply with the general recordkeeping requirements identified in Section 4.0. *[AQR 12.5.2.6(d)]*

1.3 INTERNAL COMBUSTION UNITS

1.3.1 **Emission Units**

1. The stationary source covered by this Part 70 OP includes the emission units and associated appurtenances summarized in Table 1.3-1. *[AQR 12.5.2.3; NSR ATC (June 4, 2012), Section IV-C, Condition 1(a), Part 70 renewal (February 20, 2020); Minor Revision application dated May 5, 2021; Minor Revision application dated July 12, 2021; AQR 12.4 ATC (June 7, 2022)]*

Table 1.3-1: Emission Units – Generators and Fire Pumps

EU	Building	Rating	Description	Manufacturer	Model No.	Serial No.	DOM
G001	2	35 kW	Emergency Generator	Onan	35DGBB	F970640597	10/2001
		68 hp		Cummins	4B68-1800	60109911	
G172	6	200 kW	Emergency Generator	Cummins	C200D6D	D210909338	2021
		324 hp			QSB7-G5	74763850	
G003	47	60 kW	Emergency Generator	Cummins	DGCB-5664728	C040611541	03/2004
		99 hp			4BT3.9-G4	46378126	
G139	119	600 kW	Emergency Generator	MTU	12V1600DS600	95010600944	12/2015
		896 hp			12V 1600G80S		
G004	199	287 hp	Fire Pump	Caterpillar	3306BD1	64Z08070	03/1989
G173	200	450 kW	Emergency Generator	Cummins	DFEJ2090064	C210893737	2021
		755 hp			QSX15-G9	80315983	
G174	200	450 kW	Emergency Generator	Cummins	DFEJ2010065	C210893738	2021
		755 hp			QSX15-G9	80314589	
G175	200	450 kW	Emergency Generator	Cummins	DFEJ2010065	C210894064	2021
		755 hp			QSX15-G9	80315993	
G185	200	200 kW	Emergency Generator	Cummins	C200D6D	TBD	TBD
		324 hp		Cummins	QSB7-G5	TBD	
G176	201	1,250 kW	Emergency Generator	Cummins	DQGAA-A066K369	E210930829	2021
		2,220 hp			QKS-50-G4	25462291	
G009	202	1,250 kW	Emergency Generator	Energy Now	D1250FRY4	WA535055 88555-0903	Pre-2006
		1635 hp		Mitsubishi	PS6	12588	
G090	214	175 kW	Emergency Generator	Cummins	DSGAD-1204816	E120338411	2012
		324 hp			QSB7-G5NR3	73398944	
G177	216	250 kW	Emergency Generator	Cummins	DQDAA2010023	A210872497	2020
		464 hp			QSL9-G7	74738208	
G189	256	142 kW	Fire Pump	Clarke	JU6H-UFADNG	TBD	TBD
		190 hp		John Deere	6068HFC28A		
G014	276	450 kW	Emergency Generator	Caterpillar	SR-4	5NA08881	1993
		676 hp			3412	81Z15171	
G091	277	60 kW	Emergency Generator	Cummins	DSFAD-7093853	D110209843	2011
		145 hp			QSB5-G3 NR3	73228632	

EU	Building	Rating	Description	Manufacturer	Model No.	Serial No.	DOM
G092	278	60 kW	Emergency Generator	Cummins	DSFAD-6069105	J100165574	2010
		145 hp			QSB5-G3 NR3	73142987	
G085	282	15 kW	Emergency Generator	Cummins	DSKAB-8405831	K110277167	11/2011
		27 hp		Kubota	D1703-M-BG-ET01	BG0069	
G130	328	100 KW	Emergency Generator	Cummins	DSGAA-1326283	E130496735	04/2013
		324 hp			QSB7-G5 NR3	73526010	
G131	424	500 kW	Emergency Generator	Cummins	DFEK-1215052	K120414728	08/2012
		755 hp			QSX15-G9	79605452	
G017	431	91 hp	Fire Pump	Clarke	DDFP-03DN	7307414	07/1995
				Detroit Diesel		3D-300584	
G178	620	200 kW	Emergency Generator	Cummins	C200D6D	B210877213	2021
		324 hp			QSB7-G5	747H1705	
G064	625	500 kW	Emergency Generator	Cummins	DFEK-7216968	G080197507	07/2008
		755 hp			QSX15-G9	79323537	
G095	696	50 kW	Emergency Generator	Onan	DGCA-5740923	J050844390	10/2005
		99 HP		Cummins	4BTA3.9-G5	46537788	
G179	696	50 kW	Emergency Generator	Cummins	C50 D6	J210995078	2021
		99 hp			4BTAA3.3-G7	72059789	
G140	801	20 kW	Emergency Generator	Cummins	DKAC-5671090	E040645625	2004
		27 hp		Kubota	D1703-BG-ES	3G0024	
G167	805	25 kW	Emergency Generator	Cummins	C25D6	K190689184	02/2019
		69 hp		Cummins	4BT3.3G5	72046727	
G094	807	800 kW	Emergency Generator	Cummins	DQFAB-5603136	K100170800	11/2010
		1,490 hp			QST30-G5	37246709	
G022a	807	25 kW	Emergency Generator	Cummins	DKAF-4961010	F010247688	05/2001
		45 hp		Kubota	F2803-EBG	1J1746	
G024	812	35 Kw	Emergency Generator	Cummins	DGGD-5564189	G020391974	04/2002
		56 hp			B3.3-G1	68010192	
G025	814	35 kW	Emergency Generator	Cummins	DGBB-4961094	F010251383	06/2001
		68 hp			4B3.9-G2	46115329	
G077	822	40 kW	Emergency Generator	Cummins	DSFAB-7246523	I080208782	09/2008
		145 hp			QSB5-G3 NR3	46942919	
G103	843	80 kW	Emergency Generator	Cummins	DGCG-5749541	A060876798	01/2006
		130 hp			4BTA3.9-G3	46571114	
G028	856	76 kW	Emergency Generator	Onan	DGCA-4494082	A010195338	12/2000
		102 hp		Cummins	4BT3.9-G4	46058053	
G084	878	15 kW	Emergency Generator	Cummins	DSKAB-8405827	K110276105	11/2011
		27 hp		Kubota	D7703-M-BG-ET01	BE0960	
G029	890	60 Kw	Emergency Generator	Onan	DGCB-5679848	H040677994	2004
		99 hp		Cummins	4BT3.9-G4	46415812	
G142	907	350 kW	Emergency Generator	Cummins	QSX15-G9	79408338	11/2009
		755 hp			DFEG-1902036	L090067868	

EU	Building	Rating	Description	Manufacturer	Model No.	Serial No.	DOM
G069	1050	250 Kw	Emergency Generator	Cummins	DQDAA-5956248	L070137504	12/2007
		399 hp			L9-G3 NR3	21806014	
G124	1058	15 kW	Emergency Generator	Cummins	DKAC-5671311	E040645624	2013
		27 hp		Kubota	DI703-BG-ES	03G0033	
G102	1114	15 kW	Emergency Generator	Cummins	DSKAB-8405833	K110277168	11/2011
		27 hp		Kubota	D1703-M-BG-ET01	BG0013	
G032	1301	1,100 kW	Emergency Generator	Caterpillar	SR-4	5TD01138	02/1992
		1,586 hp			3512	24Z04351	
G033	1301	1,100 kW	Emergency Generator	Caterpillar	SR-4	5TD01144	02/1992
		1,586 hp			3512	24Z04354	
G034	1602	35 kW	Emergency Generator	Cummins	35DGBB	H980789624	09/1998
		68 hp			4B3.9-G2	45745897	
G035a	1607	40 kW	Emergency Generator	Cummins	DSFAB-5427071	I100153847	2010
		145 hp			QSB5-G3 NR3	73125796	
G132	1705	100 kW	Emergency Generator	Cummins	DSGAA-6380722	A110186760	01/2011
		250 hp			QSB7-G3 NR3	73185951	
G125	1722	20 kW	Emergency Generator	Cummins	DKAE-3376325	H990967654	07/1999
		37 hp		Kubota	V2203-EBG	OXN2636	
G120	1724	15 kW	Emergency Generator	Cummins	DKAC-5671090	E040645626	08/2004
		27 hp		Kubota	D1703-BG-ES	03G0032	
G097	1730	80 kW	Emergency Generator	Caterpillar	D80-6	CAT00C44ED4B0	12/2010
		157 hp			C4.4	E5M02588	
G080	1740	125 kW	Emergency Generator	Cummins	DSGAB-7211790	G080194745	06/2008
		250 hp			QS B7-63 NR3	46913308	
G188	1771	2,000 kW	Emergency Generator	Cummins	DQKAB	TBD	TBD
		2,922 hp		Cummins	QSK60-G6 NR2	TBD	
G181	2060	15 kW	Emergency Generator	Cummins	C15 D6	G20G274153	2020
		27 hp		Kubota	D-1703-M-BG-ET01	7LW6117	
G182	2064	125 kW	Emergency Generator	Cummins	C125D6C	B210883170	2021
		208 hp			QSB5-G6 NR3	74748866	
G067	2069	100 kW	Emergency Generator	Cummins	DSHAF-5936678	J070117017	2007
		364 hp			QSL9-G2NR3	21800298	
G040	2340	60 kW	Emergency Generator	Onan	DGCB-4477253	C000075370	2000
		102 hp		Cummins	4BT3.9-G4	45947647	
G068	2345	250 kW	Emergency Generator	Cummins	DQDAA-5938796	L070135619	2007
		399 hp			QSL9-G3 NR3	21806011	
G129	2353	15 kW	Emergency Generator	Cummins	DKAC-5861739	E070066458	06/2006
		27 hp		Kubota	D1703-BG-ES01	06L0418	
G128	2354	25 kW	Emergency Generator	Stamford		M11I368779	01/2006
		27 hp		Kubota	V2203-M-BG-ET02	BQ1279	
G166	2961	125 kW	Emergency Generator	Cummins	C125 D6D	G200791484	2020
		324 hp		Cummins	QSB7-G5 NR3	74669187	

EU	Building	Rating	Description	Manufacturer	Model No.	Serial No.	DOM
G169	10005	100 kw	Emergency Generator	Cummins	C100D6C	K200844385	2020
		173 hp		Cummins	QSB5-G13	74719865	
G073	10113	230 kW	Emergency Generator	Cummins	DSHAD-7529991	L080225779	2008
		364 hp			QSL9-G2NR3	46968660	
G136	10215	50 kW	Emergency Generator	Cummins	DSFAC-1217072	K120424060	11/2012
		145 hp			QSB5G3 NR3	73470433	
G168	10215	100 kW	Emergency Generator	Caterpillar	D100-8	CAT00C44TCN600584	2019
		111.3 hp		Caterpillar	C4.4	E5G01298	
G041	10307	818 Kw	Emergency Generator	Cummins	900DFJC	K910434479	11/1991
		1,220 hp			KTA38-G3	97494-6	
G149	10460	157 hp	Fire Pump	John Deere	JU4H-UFADY8	PE4045N000586	2016
					4045HFC28		
A033	10567	250 kW	Continuous Duty Generator	Olympian	D2000P4	OLY00000KNNS00551	2002
		325 bhp		International	GCD325	WS4486N1358315	
G046	61663	100 kW	Emergency Generator	Cummins	DGDB-5673920	F040652485	06/2004
		170 hp			6BT5.9-G6	46401060	
G047	61664	175 kW	Emergency Generator	Cummins	DSHAB-5429067	H100151730	08/2010
		364 hp			QSL9-G2NR3	73121627	
G048	61672	182 hp	Fire Pump	Cummins	6BTA5.9-F1	44954338	12/1993
G049	61672	208 hp	Fire Pump	Cummins	6B Long Block	2LB003330	04/2005
G157	61683	86 hp	Fire Pump	Clarke	JU4H-UFADJ8	PE4045L250749	06/2014
				John Deere	4045HF280	PE4045L250749	
G050	61697	250 kW	Emergency Generator	Cummins	DFAC-5634769	K030567407	10/2003
		380 hp			LTA10-G1	35086128	
G099	61697	105 hp	Fire Pump	John Deere	4045TF220	PE4045T321936	2004
G160	Mineral Processing	150 hp (Diesel, Tier 4)	Continuous Duty Generator	Caterpillar	C9	G3CATEL0881B1	02/2018
G161	Mineral Processing	520 hp	Continuous Duty Generator	Caterpillar	C13	RRA12593	2018
G162	Mineral Processing	111.3 hp	Continuous Duty Generator	Caterpillar	C4.4	W2304416	2018
A032	Mineral Processing	250 hp	Continuous Duty Generator	Cummins	M11	60425136	2013
A076	Mineral Processing	150 kW	Emergency Generator	Caterpillar	D150-8	CAT00C66AN6D01653	2010
		201 hp		Perkins	C6.6	E6M02176	
A053	Concrete Plant	455 kW	Emergency Generator	Caterpillar	500	G6B19937	2012
		581 hp			C15	JJF00792	
G186	Concrete Plant and Asphalt Plant	36.4 kW	Continuous Duty Generator	Hatz	4H50TIC	1361417002764	2017
		49.5 hp					

EU	Building	Rating	Description	Manufacturer	Model No.	Serial No.	DOM
G187[1]	Concrete Plant	18 hp 9 kW	Continuous Duty Generator	DuroMax	XP18HPE	A2102000268	2022
G051	Fuel Hydrant (62120)	536 hp	Emergency Generator	Caterpillar	LC6 3456	G6B00883 7WG03265	2005
G163	2336 (Revetments)	350 kW 531 hp	Emergency Generator	Caterpillar	350 C13	CAT00C13VT3200118 PW300263	2017
G190	621 ITN	50 kW 173 hp	Emergency Generator	Cummins	C50D6C QSB5-G13	C240321690 22651972	2022
G191	1733	80 kW 197 hp	Emergency Generator	Marathon Mercedes-Benz	362CSL1604 OM924LA	MT-0116446-1221 95130501876	2022
G192[1]	Concrete Plant	9.5 hp	Continuous Duty Generator	Kohler	CH395	4616810108	2016
G193	DASR	102 kW 158 hp	Emergency Generator	Kohler John Deere	100REOZJF 4045HF285	TBD TBD	2023
G194	21	1,250 kW 2,220 hp	Emergency Generator	Cummins	DQGAA QSK50-G4 NR2	TBD TBD	2022
G195	918	60 kW 99 hp	Emergency Generator	Cummins	C60 D6 4BTAA3.3-G7	TBD TBD	2022
G196	1998	250 kW 314 hp	Emergency Generator	Cummins	C200D2RE QSB7-G9	C200740519 74627531	03/2020
G197	1608	125 kW 324 hp	Emergency Generator	Cummins	C125D6D QSB7-G5	TBD TBD	2022
G198	2892	50 kW 173 hp	Emergency Generator	Cummins	C50D6C QSB5-G13	TBD TBD	2023
G199	1995	125 kW 324 hp	Emergency Generator	Cummins	C125D6D QSB7-G5 NR3	A240301969 226441992	08/27/2023

[1]These emission units are gasoline powered; all other units are diesel powered.

1.3.2 **Controls**

1.3.2.1 Control Devices

No add-on control devices have been identified.

1.3.2.2 Control Requirements

1. The permittee shall operate each diesel-powered emergency generator with a turbocharger and aftercooler (EUs: G009, G010, G032, G033, G041, and G176). *[AQR 121.7.1(a)(1)]*

2. The permittee shall operate the diesel-powered continuous duty generator with a turbocharger and injection timing retardation (EU: A032). *[AQR 121.7.1(b)(1)]*

3. The permittee shall operate the diesel-powered continuous duty generator in accordance with the emission limits and requirements of 40 CFR Part 60, Subpart IIII and incorporated by reference in AQR 14.1(b)(82) (EU: A032). *[AQR 121.7.1(a)(2)]*

4. The permittee shall operate and maintain each diesel-powered generator in accordance with the manufacturer's O&M manual using good combustion practices and good maintenance practices (EUs: A032, G009, G010, G032, G033, G041, and G176). *[AQR 121.7.1(a)(3) and (b)(2)]*

5. The permittee shall maintain each generator (EUs: G001, G003, G009, G014, G017, G022a, G024, G025, G028, G029, G032, G033, G034, G040, G041, G046, G050, G051, G095, G103, G120, G125, G128, and G140) as follows, unless the manufacturer's O&M manual are more stringent: *[40 CFR Part 63, Subpart ZZZZ]*

   a. Change oil and filter every 500 hours of operation or annually, whichever comes first;

   b. Inspect air cleaners every 1,000 hours of operation or annually, whichever comes first; and

   c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

   d. The permittee may utilize an oil analysis program as described in Subpart 63.6625(i) in order to extend the specified oil change requirement and can petition the Control Officer pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

6. During periods of startup, the permittee shall minimize the engine's (EUs: G001, G003, G004, G009, G014, G022a, G024, G025, G028, G029, G032, G033, G034, G040, G041, G046, G050, G051, G099, G103, G120, G125, G128, G140, and A076) time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. *[40 CFR 63.6603(a)]*

7. The permittee shall only combust diesel fuel with a maximum sulfur content of 15 ppm and either a minimum cetane index of 40 or a maximum aromatic content of 35% by volume in the diesel-powered generators and fire pumps (EUs: G139, G149, and G157). *[40 CFR 60.4207(b) and 40 CFR 63.6604(b)]*

8. The permittee shall only combust gasoline with a maximum sulfur content of 10.00 ppm in the gasoline generators (EUs: G187, and G192). *[40 CFR 60.4235]*

9. The permittee shall operate and maintain all generators in accordance with the manufacturer's O&M manual for emissions-related components. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and AQR 12.5.2.6(a)]*

1.3.3 **Limitations and Standards**

1.3.3.1 Operational Limits

1. The permittee shall limit the operation of the emergency generators for testing and maintenance purposes to 100 hours/year. The permittee may operate the emergency generators up to 50 hours/year for nonemergency situations, but those hours count towards the 100 hours provided for testing and maintenance. Except as provided below (1.a), the 50 hours per year for nonemergency use cannot be used for peak shavings or nonemergency demand response, or to generate income for a facility by supplying power to an electric grid or to otherwise supply power as part of a financial arrangement with another entity (all generators in Table 1.3-1 **except**

EUs: G001, G003, G022a, G024, G025, G034, G084, G085, G095, G102, G125, G129, G140, G187, and G102): *[40 CFR Part 60.4211 and 40 CFR Part 63.6640]*

a. The 50 hours per year for nonemergency use can be used to supply power as part of a financial arrangement with another entity if all the following conditions are met:

i. The engine is dispatched by the local balancing authority and/or local transmission and distribution operator.

ii. The dispatch is intended to mitigate local transmission and/or distribution limitations to avert potential voltage collapse or line overloads that could lead to interruption of power supply in a local area or region.

iii. The dispatch follows reliability, emergency operation, or similar protocols that follow specific NERC, regional, state, public utility commission, or local standards or guidelines.

iv. The power is provided only to the facility itself or to support the local transmission and distribution system.

v. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission, or local standards or guidelines that are being followed for the dispatching engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

2. The permittee shall limit the operation of the fire pumps (EUs: G004, G017, G048, G049, G099, G139, G149, G157, and G189) for testing and maintenance purposes to 100 hours/year. The permittee may operate the fire pumps up to 50 hours/year for nonemergency situations, but those hours count towards the 100 hours provided for testing and maintenance. *[40 CFR Part 60.4211 and 40 CFR Part 63.6640]*

3. The permittee shall limit the operation of the 210-bhp generator (EU: A032) to 2,080 hours in any consecutive 12-months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

4. The permittee shall limit the operation of the diesel engines at the aggregate plant (EUs: G160 through G162) to 2,080 hours in any consecutive 12-months. *[114 Title V OP (04/30/20)]*

5. The permittee shall limit the operation of the 295-bhp diesel generator (EU: A033) to 1,750 hours in any consecutive 12-months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

1.3.3.2 Emission Limits

1. The permittee shall comply with the opacity standards that are applicable in 40 CFR Part 60 Subpart IIII, or shall not exceed 20 percent, whichever is most stringent, as determined by conducting observations in accordance with EPA Method 9, for the emission units listed in Table 1.3-1. *[AQR 26.1]*

2. The permittee shall not allow the actual emissions from each internal combustion engine to exceed the PTE listed below in Table 1.3-2, in any consecutive 12-months. *[AQR 12.5.2.3;*

NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); NSR ATC 114 (09/08/22), (10/13/22), and (01/19/23); 114 Title V OP (10/28/13), (09/18/15), (04/20/16), (01/03/17), (07/01/17), (10/19/17), (04/30/20), (06/15/21); and Applications for Part 70 OP Revision (03/10/21), (05/27/21), and (07/14/21)]

Table 1.3-2: PTE for Generators (tons per year)

EU	Condition[1]	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_2	VOC	HAP
G001	500 hr/yr	0.04	0.04	0.28	0.18	0.01	0.01	0.01
G172	500 hr/yr	0.01	0.01	0.83	0.03	0.01	0.01	0.01
G003	500 hr/yr	0.01	0.01	0.50	0.06	0.01	0.02	0.01
G139	500 hr/yr	0.01	0.01	2.51	0.15	0.01	0.13	0.01
G004	500 hr/yr	0.16	0.16	2.22	0.48	0.01	0.18	0.01
G173	500 hr/yr	0.01	0.01	1.66	0.15	0.01	0.05	0.01
G174	500 hr/yr	0.01	0.01	1.66	0.15	0.01	0.05	0.01
G175	500 hr/yr	0.01	0.01	1.66	0.15	0.01	0.05	0.01
G185	500 hr/yr	0.01	0.01	0.83	0.03	0.03	0.01	0.01
G176	500 hr/yr	0.02	0.02	5.90	0.49	0.01	0.11	0.01
G009	500 hr/yr	0.29	0.29	9.81	2.25	0.01	0.29	0.01
G090	500 hr/yr	0.01	0.01	0.66	0.04	0.01	0.01	0.01
G177	500 hr/yr	0.01	0.01	0.87	0.20	0.01	0.01	0.01
G189	500 hr/yr	0.01	0.01	0.28	0.09	0.01	0.01	0.01
G014	500 hr/yr	0.12	0.12	4.06	0.93	0.01	0.12	0.01
G091	500 hr/yr	0.01	0.01	0.19	0.04	0.01	0.01	0.01
G092	500 hr/yr	0.01	0.01	0.19	0.04	0.01	0.01	0.01
G085	500 hr/yr	0.01	0.01	0.05	0.01	0.01	0.01	0.01
G130	500 hr/yr	0.02	0.02	0.35	0.15	0.01	0.02	0.01
G131	500 hr/yr	0.02	0.02	2.02	0.09	0.01	0.05	0.01
G017	500 hr/yr	0.05	0.05	0.71	0.15	0.01	0.06	0.01
G178	500 hr/yr	0.01	0.01	0.83	0.03	0.01	0.01	0.01
G064	500 hr/yr	0.02	0.02	2.02	0.09	0.01	0.05	0.01
G095	500 hr/yr	0.01	0.01	0.50	0.06	0.01	0.02	0.01
G179	500 hr/yr	0.05	0.05	0.77	0.17	0.01	0.06	0.01
G140	500 hr/yr	0.01	0.01	0.14	0.11	0.01	0.01	0.01
G167	500 hr/yr	0.01	0.01	0.13	0.14	0.01	0.01	0.01
G094	500 hr/yr	0.10	0.10	3.28	0.41	0.01	0.07	0.01
G022a	500 hr/yr	0.02	0.02	0.35	0.08	0.01	0.03	0.01
G024	500 hr/yr	0.01	0.01	0.12	0.01	0.01	0.01	0.01
G025	500 hr/yr	0.04	0.04	0.28	0.18	0.01	0.01	0.01
G077	500 hr/yr	0.01	0.01	0.16	0.05	0.01	0.01	0.01
G103	500 hr/yr	0.07	0.07	1.01	0.22	0.01	0.08	0.01
G028	500 hr/yr	0.01	0.01	0.51	0.07	0.01	0.02	0.01
G084	500 hr/yr	0.01	0.01	0.05	0.01	0.01	0.01	0.01
G029	500 hr/yr	0.01	0.01	0.5	0.06	0.01	0.02	0.01
G142	500 hr/yr	0.04	0.04	1.70	0.17	0.01	0.09	0.01
G069	500 hr/yr	0.01	0.01	1.25	0.09	0.01	0.02	0.01
G124	500 hr/yr	0.01	0.01	0.21	0.05	0.01	0.02	0.01

EU	Condition[1]	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_2	VOC	HAP
G102	500 hr/yr	0.01	0.01	0.06	0.01	0.01	0.01	0.01
G032	500 hr/yr	0.21	0.21	7.80	1.14	0.01	0.98	0.01
G033	500 hr/yr	0.21	0.21	7.80	1.14	0.01	0.98	0.01
G034	500 hr/yr	0.04	0.04	0.28	0.18	0.01	0.01	0.01
G035a	500 hr/yr	0.01	0.01	0.16	0.05	0.01	0.01	0.01
G132	500 hr/yr	0.01	0.01	0.27	0.11	0.01	0.02	0.01
G125	500 hr/yr	0.02	0.02	0.29	0.06	0.01	0.02	0.01
G120	500 hr/yr	0.01	0.01	0.21	0.05	0.01	0.02	0.01
G097	500 hr/yr	0.09	0.09	1.22	0.26	0.01	0.10	0.01
G080	500 hr/yr	0.01	0.01	0.41	0.05	0.01	0.01	0.01
G188	500 hr/yr	0.06	0.06	8.54	0.29	0.01	0.18	0.01
G181	500 hr/yr	0.01	0.01	0.05	0.01	0.01	0.01	0.01
G182	500 hr/yr	0.01	0.01	0.57	0.04	0.01	0.01	0.01
G067	500 hr/yr	0.20	0.20	2.82	0.61	0.01	0.22	0.01
G040	500 hr/yr	0.01	0.01	0.51	0.07	0.01	0.02	0.01
G068	500 hr/yr	0.01	0.01	1.25	0.09	0.01	0.02	0.01
G128	500 hr/yr	0.01	0.01	0.05	0.01	0.01	0.01	0.01
G129	500 hr/yr	0.01	0.01	0.05	0.01	0.01	0.01	0.01
G166	500 hr/yr	0.01	0.01	0.51	0.13	0.01	0.10	0.01
G169	500 hr/yr	0.01	0.01	0.25	0.07	0.01	0.01	0.01
G073	500 hr/yr	0.01	0.01	0.74	0.06	0.01	0.01	0.01
G136	500 hr/yr	0.01	0.01	0.17	0.05	0.01	0.01	0.01
G168	500 hr/yr	0.01	0.01	0.16	0.04	0.01	0.01	0.01
G041	500 hr/yr	0.05	0.05	8.07	0.29	0.01	0.10	0.01
G149	500 hr/yr	0.02	0.02	0.25	0.32	0.01	0.01	0.01
A033	1,750 hr/yr	0.01	0.01	1.79	1.63	0.01	0.09	0.01
G046	500 hr/yr	0.03	0.03	0.84	0.22	0.01	0.01	0.01
G047	500 hr/yr	0.01	0.01	0.66	0.08	0.01	0.01	0.01
G048	500 hr/yr	0.05	0.05	0.61	0.23	0.01	0.02	0.01
G049	500 hr/yr	0.11	0.11	1.61	0.35	0.01	0.13	0.01
G157	500 hr/yr	0.01	0.01	0.26	0.04	0.01	0.02	0.01
G050	500 hr/yr	0.10	0.10	1.95	0.21	0.01	0.10	0.01
G099	500 hr/yr	0.01	0.01	0.29	0.02	0.01	0.02	0.01
G160	2,080 hr/yr	0.05	0.05	0.98	0.89	0.01	0.05	0.01
G161	2,080 hr/yr	0.02	0.02	0.16	3.10	0.01	0.01	0.01
G162	2,080 hr/yr	0.04	0.04	0.73	0.66	0.01	0.04	0.01
A032	2,080 hr/yr	0.57	0.57	8.06	1.74	0.01	0.64	0.01
A076	8,760 hr/yr	0.02	0.02	0.39	0.09	0.01	0.02	0.01
A053	500 hr/yr	0.05	0.05	0.96	0.84	0.01	0.10	0.01
G186	8,760 hr/yr	0.01	0.01	1.36	0.14	0.01	0.07	0.01
G187	8,760 hr/yr	0.06	0.06	0.87	0.55	0.05	1.18	0.01
G051	500 hr/yr	0.29	0.29	4.15	0.9	0.01	0.33	0.01
G163	500 hr/yr	0.03	0.03	1.28	0.76	0.01	0.07	0.01
G190	500 hr/yr	0.02	0.02	0.21	0.05	0.01	0.01	0.01
G191	500 hr/yr	0.01	0.01	0.37	0.15	0.01	0.02	0.01
G192	8,760 hr/yr	0.03	0.03	0.46	0.29	0.02	0.90	0.90
G193	500 hr/yr	0.01	0.01	0.22	0.08	0.01	0.01	0.01
G194	500 hr/yr	0.02	0.02	5.90	0.49	0.01	0.11	0.01
G195	500 hr/yr	0.01	0.01	0.21	0.02	0.01	0.01	0.01
G196	500 hr/yr	0.01	0.01	0.02	0.52	0.01	0.01	0.01
G197	500 hr/yr	0.01	0.01	0.43	0.10	0.01	0.20	0.01
G198	500 hr/yr	0.01	0.01	0.25	0.07	0.01	0.01	0.01
G199	500 hr/yr	0.01	0.01	0.43	0.10	0.01	0.01	0.01

[1]The quantities in this column are not intended as enforceable permit limits unless stated otherwise in this permit.

1.3.4 **Compliance Demonstration Requirements**

1.3.4.1 Monitoring

Visible Emissions

See Section 2.0.

Generators/Engines/Fire Pumps

1. The permittee shall operate each emergency diesel generator with a nonresettable hour meter and monitor the duration of operation when operated for testing, maintenance, and separately for emergencies. *[AQR 12.5.2.6(d) and AQR 121.7.2(a)]*

2. The permittee shall operate each continuous duty diesel generator (EUs: A032, A033, and G160 through G162, G186, G187, and G192) with a nonresettable hour meter and monitor the duration of operation. *[AQR 12.5.2.6(d)]*

3. The permittee shall demonstrate compliance with the hourly emissions limitations for the internal combustion emission units by maintaining a log of the maintenance and testing activities inclusive of the date, the type of fuel consumed, and the start and stop time of each emergency generator, fire pump, and aircraft arrestor. *[AQR 12.5.2.6(d)]*

4. The permittee shall monitor the sulfur content and cetane index or aromatic content of the fuel burned in each emergency diesel generator by retaining a copy of vendor fuel specifications (all generators in Table 1.3-1 **except** EUs: G001, G003, G022a, G024, G025, G034, G084, G085, G095, G102, G125, G129, G140, G187, and G102). *[40 CFR 60.4207(b) and 40 CFR 63.6604(b)]*

5. The permittee shall monitor the sulfur content and cetane index or aromatic content of the fuel burned in each fire pump by retaining a copy of vendor fuel specifications (EUs: G139, G149, and G157). *[40 CFR 60.4207(b) and 40 CFR 63.6604(b)]*

6. The permittee shall monitor the sulfur content of gasoline used to power the generators (EUs: G187, and G192) by retaining a copy of vendor fuel specifications. *[AQR 12.5.2.6(d)]*

1.3.4.2 Testing

1. No performance testing requirements have been identified for any emission unit in this section at this time.

1.3.4.3 Recordkeeping

1. The permittee shall comply with the recordkeeping requirements of 40 CFR Part 60, Subpart IIII, and 40 CFR Part 63, Subpart ZZZZ.

2. The permittee shall create and maintain the following records, all of which must be producible on-site to the Control Officer's authorized representative upon request and without prior notice during the permittee's hours of operation: *[AQR 12.5.2.6(d)(2)]*

Opacity

a. Dates and time when visible emissions checks and observations are performed, and the steps taken to make any necessary corrections to bring opacity into compliance per Section 2.0 (if required);

b. a log book of excess opacity and any corrective actions taken;

Inspections/Maintenance/General

c. Equipment inspections and maintenance;

d. Manufacturer's O&M manual for each diesel-fired generator and each fire pump;

e. the dates and time of the visible emissions check, the name of the person conducting the check, the results of the check, and the type of corrective action taken;

Emergency Generators

f. monthly duration of operation of the emergency generators and fire pumps for testing, maintenance, and nonemergency use (reported semiannually);

g. monthly duration of operation of the emergency generators and fire pumps for emergency use, including documentation justifying use during the emergency (reported semiannually);

h. monthly, consecutive 12-month total hours of operation and type of fuel consumed by the continuous duty internal combustion engines (EUs: A032, A033, G160 through G162, G186, and G187) (reported semiannually);

i. Sulfur content and cetane index or aromatic content of diesel fuel used to power the generators (all generators in Table 1.3-1 **except** EUs: G001, G003, G022a, G024, G025, G034, G084, G085, G095, G102, G125, G129, G140, G187, and G102) and fire pumps (EUs: G139, G149, and G157), as certified by the supplier;

j. Sulfur content of gasoline used to power the generators (EUs: G187 and G192), as certified by the supplier;

k. results of any performance testing, if applicable;

Nonroad Engines

l. Records of location changes for nonroad engines, if applicable;

Emissions

m. Deviations from permit requirements that result in excess emissions (reported as required in Section 5.0 of this permit);

n. Deviations from permit requirements that do not result in excess emissions (reported semiannually); and

o. Calendar year annual combined emissions for engines (reported annually).

3. The permittee shall include in each record above, where applicable, the date and time the monitoring or measurement was taken, the person performing the monitoring or measurement, and the emission unit or location where the monitoring or measurement was performed. Each record must also contain the action taken to correct any deficiencies, when applicable.

4. The permittee shall comply with the general recordkeeping requirements identified in Section 4.0.

1.4 HUSH HOUSE

1.4.1 Emission Units

1. The stationary source covered by this Part 70 OP includes the emission units and associated appurtenances summarized in Table 1.4-1. *[AQR 12.5.2.3 and NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

Table 1.4-1: List of Emission Units

EU	Building	Description
N001	61633	Hush House
N002	61637	Hush House

1.4.2 Controls

1.4.2.1 Control Devices

No add-on control devices have been identified.

1.4.2.2 Control Requirements

1. The permittee shall implement best management practices that result in compliance, at a minimum, with AQR 26, 40, and 43. *[AQR 12.5.2.6(a)]*

2. The permittee shall operate and maintain the aircraft engine test cells using good combustion practices and good maintenance practices, to include operating the units in accordance with the manufacturer's O&M manual (EUs: N001 and N002). *[AQR 121.1(c)]*

3. The permittee shall combust only jet fuel with a sulfur content equal to or less than 0.30 percent sulfur by weight. *[Application for Part 70 OP Revision (04/06/23) and AQR 12.5.2.6(a)]*

1.4.3 Limitations and Standards

1.4.3.1 Operational Limits

1. The permittee shall limit the maximum annual time in the mode of operation for each engine type testing in the hush houses as listed in Table 1.4-2. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and 114 Title V OP (04/30/20)]*

Table 1.4-2: Maximum Annual Mode Hours for Each Type of Engine Test

Type of Engine	Time in Mode (Hours per year)		
	Idle	Military	Afterburner
F100-PW-220	240	120	20
F100-PW-229	150	75	8
F119-PW-100	100	50	6

2. The permittee shall limit the maximum fuel flow rate as listed in Table 1.4-3 for each aircraft engine type tested in the hush houses. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

Table 1.4-3: Maximum Fuel Flow Rate for Each Type of Engine Test

Aircraft Engines	Power Setting	Fuel Flow Rate (lbs/hr)
F100-PW-220	Idle	2,084
	Military	9,679
	Afterburner-5	41,682
F100-PW-229	Idle	1,087
	Military	11,490
	Afterburner-1	20,793
F119-PW-100	Idle	1,377
	Military	18,612
	Afterburner	50,170

1.4.3.2 Emission Limits

1. The permittee shall not discharge into the atmosphere, from any emission unit, any air contaminant in excess of an average of 20 percent opacity for a period of more than 6 consecutive minutes. *[AQR 26.1]*

2. The permittee shall not allow the actual emissions from the hush house operations to exceed the PTE listed below in Table 1.4-4, in any consecutive 12-months. *[NSR ATC/OP 114; Modification 46, Revision 1 (11/17/08); 114 Title V OP (09/18/15), (04/30/20), and (06/15/21); and AQR 12.5.2.3]*

Table 1.4-4: PTE (tons per year)

Aircraft Engines	Power Setting	TIM (hours)	PM_{10}	$PM_{2.5}$	NO_X	CO	SO_2	THC (VOC)	HAP
F100-PW-220	Idle	240	0.17	0.15	1.15	8.83	1.50	1.99	0.32
	Military	120	0.53	0.48	17.19	0.50	3.48	1.21	0.02
	AB-5	20	0.16	0.15	3.42	4.95	2.50	0.67	0.02
F100-PW-229	Idle	150	0.05	0.05	0.31	0.83	0.49	0.04	0.11
	Military	75	0.39	0.35	12.62	0.14	2.59	0.13	0.01
	AB-1	8	0.03	0.03	1.19	1.79	0.50	0.44	0.00
F119-PW-100	Idle	100	0.17	0.12	0.21	3.32	0.41	0.11	0.10
	Military	50	0.52	0.45	9.22	0.35	2.79	0.01	0.01
	AB	6	0.13	0.11	1.11	2.42	0.90	0.01	0.01

TIM = Time in Mode
AB = Afterburner

1.4.4 **Compliance Demonstration Requirements**

1.4.4.1 Monitoring

1. The permittee shall verify continuous compliance with the emission limitations specified in this permit by usage of accepted emission factors, operational parameters, performance test data or alternate method(s) approved by the Control Officer. *[AQR 12.5.2.6(d)]*

2. The permittee shall demonstrate compliance with the hour limits, listed in Table 1.4-2, for jet engine testing in the hush houses, by maintaining a log of the start and stop time, type of engine and the mode of operation for each engine test. *[AQR 12.5.2.6(d)]*

3. The permittee shall monitor the flow rate of the fuel used during engine testing by use of a flow meter or other method approved by the Control Officer. *[AQR 12.5.2.6(d)]*

4. The permittee shall report any exceedance in maximum fuel flow rate outlined in Table 1.4-3 to the Control Officer within five (5) working days. *[AQR 12.5.2.6(d)]*

5. The permittee shall monitor the sulfur content of the fuel used during the engine testing by having fuel analyzed monthly in accordance with a method listed in the most recent publication of MIL-DTL-83133. *[Application for Part 70 OP Revision (04/06/23) and AQR 12.5.2.6(d)]*

1.4.4.2 Testing

1. No performance testing requirements have been identified for any emission unit in this section at this time.

1.4.4.3 Recordkeeping

1. The permittee shall keep and maintain the following records, all of which must be producible on-site to the Control Officer's authorized representative upon request and without prior notice during the permittee's hours of operation: *[AQR 12.5.2.6(d)(2) and AQR 121.7.2(b)]*

    a. the date, start and stop time, type of engine, and time in mode for each engine tested (reported semiannually);

    b. excess emissions and any corrective actions taken as a result of the excess emissions;

    c. monthly fuel analysis of the sulfur content of the jet fuel designated for aircraft engine testing;

    d. results of any performance testing, if applicable;

Emissions

    e. Deviations from permit requirements that result in excess emissions (reported as required in Section 5.0 of this permit);

    f. Deviations from permit requirements that do not result in excess emissions (reported semiannually); and

    g. Calendar year annual emissions calculated for each emission unit in this section (reported annually).

2. The permittee shall comply with the general recordkeeping requirements identified in Section 4.0. *[AQR 12.5.2.6(d)]*

1.5 DISTURBED VACANT AREAS/UNPAVED PARKING AREAS

1.5.1 Emission Units

1. The stationary source covered by this Part 70 OP includes the emission unit and associated appurtenances summarized in Table 1.5-1. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and AQR 12.5.2.3]*

Table 1.5-1: Fugitive Emission Activities

EU	Description
K001	Disturbed Areas, 70 acres

1.5.2 Controls

1.5.2.1 Control Devices

No add-on controls have been identified.

1.5.2.2 Control Requirements

1. The permittee shall control fugitive dust from unpaved parking lots, material handling and storage yards, and vehicle and equipment storage yards, whenever technically feasible, by:

   a. watering;

   b. paving;

   c. applying dust palliatives applicable to traffic areas;

   d. for employee, visitor and other on-road vehicle parking areas, applying dust palliatives to vehicle travel lanes within the parking lot and uniformly applying and maintaining clean, well-graded surface gravel of a minimum of 3/8 inch material to a depth of two (2) inches on the vehicle parking areas; or

   e. applying and maintaining an alternate control measure pre-approved by the Control Officer. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

2. For unpaved parking lots, material handling and storage yards, and vehicle and equipment storage yards, the permittee shall stabilize soils by:

   a. watering to maintain soils in a visibly moist condition;

   b. paving by application and maintenance of asphalt, concrete, or other similar material on a roadway surface;

   c. applying and maintaining per the manufacturer's recommendations dust palliatives as needed to maintain a stable surface; or

   d. maintaining gravel to at least two (2) inch minimum depth. [NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]

3. If open areas and vacant lots are 5,000 square feet or larger and are disturbed by any means, including use by motor vehicle and/or off-road motor vehicle, or material dumping, then the

permittee of such open areas and vacant lots shall implement one or more of the control measures whenever technically feasible, by:

a. preventing equipment, motor vehicles and/or off-road vehicle trespassing, parking, and/or access by installing effective control measures; and either

b. establishing and maintaining a stable surface area at all times by watering to form a crust, establishing and maintaining adequate vegetation, uniformly applying and maintaining surface gravel or applying and maintaining dust palliatives to all areas; or

c. applying and maintaining an alternative control measure per-approved by the Control Officer. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

4. For open areas and vacant lands, the permittee shall stabilize soils by:

a. watering to maintain soils in a visibly moist condition;

b. crusting of the soils as determined by the Soil Crust Determination Test (Drop Ball Test);

c. maintaining adequate vegetation cover on open areas and vacant lots;

d. applying clean well-graded gravel of at least 3/8 inch in diameter to cover the entire area; or

e. applying and maintaining per the manufacturer's recommendations dust palliatives as needed to maintain a stable surface. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

1.5.3 **Limitations and Standards**

1.5.3.1 Operational Limits

1. The permittee, at no time, shall allow the sum of the amount of storage areas/disturbed surfaces at the entire NAFB (excluding the landfill, mineral processing, and areas under a dust permit) exceed 70 acres on any given day. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

1.5.3.2 Emission Limits

1. The permittee shall not discharge into the atmosphere, from any emission unit, any air contaminant in excess of an average of 20 percent opacity for a period of more than 6 consecutive minutes. *[AQR 26.1]*

2. The permittee shall not allow the actual emissions from storage areas/vacant land operations to exceed the PTE listed below in Table 1.5-2, in any consecutive 12-months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and AQR 12.5.2.3]*

Table 1.5-2: PM_{10} PTE for Disturbed Surfaces at NAFB[1] (tons/year)

EU	Area	Disturbed Surface (Acres)	PM_{10}	$PM_{2.5}$
K001	Disturbed Areas	70	21.22	3.18

[1]DAQ default emission factor of 1.66 lb/acre-day for storage pile/disturbed surface was used for PM_{10} emissions. $PM_{2.5}$ emissions are estimated to be 15% of the PM_{10} emissions.

1.5.4 **Compliance Demonstration Requirements**

1.5.4.1 Monitoring

Visible Emissions

See Section 2.0.

Disturbed Vacant Areas/Unpaved Parking Areas

1. The permittee shall observe operations at least monthly, and more often as meteorological conditions warrant, and shall investigate any occurrence of visible fugitive dust within normal working hours (Monday through Friday, excluding holidays, between the hours of 7:00 to 17:00). Corrective action shall be immediately taken to correct causes of fugitive dust in excess of allowable opacity limits. *[AQR 12.5.2.6(a)]*

2. Where unpaved access roadways may exist, the permittee shall monitor all vehicles traveling on unpaved roadways, and take such action as necessary to stabilize the surface as traffic and meteorological conditions warrant. *[AQR 12.5.2.6(a)]*

3. The Control Officer reserves the right at any time to quantify acreage of disturbed areas, storage lots and unpaved parking lots to demonstrate compliance with emission limitations outlined in this permit. *[AQR 12.5.2.6(d)]*

4. The permittee shall monitor, and determine on a monthly basis, the total area and locations of unpaved parking lots, material handling and storage yards, vehicle and equipment storage yards, disturbed open areas, and disturbed vacant land in acres (EU: K001). *[AQR 12.5.2.6(d)]*

1.5.4.2 Testing

1. No performance testing requirements have been identified for any emission unit in this section at this time.

1.5.4.3 Recordkeeping

1. The permittee shall keep and maintain the following records, all of which must be producible on-site to the Control Officer's authorized representative upon request and without prior notice during the permittee's hours of operation: *[AQR 12.5.2.6(d)(2)]*

Opacity

a. the dates and time of the visible emissions check, the name of the person conducting the check, the results of the check, and the type of corrective action taken per Section 2.0 (if required);

b. a log book of excess opacity and any corrective actions taken;

Disturbed Vacant Areas/Unpaved Parking Areas

c. monthly, total area of unpaved parking lots, material handling and storage yards, vehicle and equipment storage yards, disturbed open areas, and disturbed vacant land in acres (EU: K001), along with maps of these locations (reported semiannually). If the locations

of disturbed areas on file with DAQ have not changed since the prior submittal, the permittee is not required to resubmit the location maps. Instead, the permittee shall submit a certification statement with the semiannual report stating that the location maps have not changed;

d. records of all fugitive dust abatement activities;

e. results of any performance testing. *[40 CFR 60.7 – 40 CFR 60.11]*

Emissions

f. Deviations from permit requirements that result in excess emissions (reported as required in Section 5.0 of this permit);

g. Deviations from permit requirements that do not result in excess emissions (reported semiannually); and

h. Calendar year annual emissions calculated for each emission unit in this section (reported annually).

2. The permittee shall include in each record above, where applicable, the date and time the monitoring or measurement was taken, the person performing the monitoring or measurement, and the emission unit or location where the monitoring or measurement was performed. Each record must also contain the action taken to correct any deficiencies, when applicable. *[AQR 12.5.2.8]*

3. The permittee shall comply with the general recordkeeping requirements identified in Section 4.0. *[AQR 12.5.2.8]*

1.6 MINERAL PROCESSING

1.6.1 Emission Units

1. The stationary source covered by this Part 70 OP includes the emission units and associated appurtenances summarized in Tables 1.6-1 through 1.6-4. *[AQR 12.5.2.3; NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); and 114 Title V OP (09/18/15), (04/20/16), (07/01/17), and (04/30/20)]*

Table 1.6-1: Asphalt Plant Emission Units

EU	Description	Make	Model No.	Serial No.
A040	Hopper 1	Terex	PAB-420TR	
A041	Hopper 2	Terex	PAB-420TR	
A042	Hopper 3	Terex	PAB-420TR	
A043	Hopper 4	Terex	PAB-420TR	
A044	Gathering Conveyor	Terex	TPC-2447	245
A045	Screen	Terex	N/A	
A046	Charging Conveyor	Terex	PC-2447	245
A047	Drum Mixer	Terex	E-225P (Baghouse: RA-218PS)	114 (Baghouse: 1 31)
A048	Conveyor - Load Out	Terex	PC-2447	
A049	Hopper - Load Out	Terex	SE-195	
A050	Burner	Terex		
A061	Conveyor	Terex		
A062	Conveyor	Terex		
A063	Storage Pile			

Table 1.6-2: Concrete Plant Emission Units

EU	Description	Make	Model No.	Serial No.
A077	Mobile Cement Silo	CemenTech Inc	CT-200LP	
A017	Storage Piles - Gravel/Dirt, 0.10 acres			
A018	Storage Piles - Sand, 0.05 acres			
A054	Cement Silo	Retesa	HCC1EM-H4050	212-RTE-1T-6502
A055	Cement Silo	Retesa	HCC1EM-H4050	212-RTE-1T-6503
A056	Conveyor	Erie Strayer Company	MC-11C	
A057	Mixer	Erie Strayer Company	MC-11C	
A058	Aggregate Bin (aggregate)	Erie Strayer Company	MC-11C	
A059	Aggregate Bin (sand)	Erie Strayer Company	MC-11C	
A060	Batch Transfer Conveyor	Erie Strayer Company	MC-9485	
A064	Conveyor	Erie Strayer Company	MC-11C	
A065	Conveyor	Erie Strayer Company	MC-11C	
A066	Aggregate Bin (aggregate)	Erie Strayer Company	MC-11C	
A067	Hopper	C&W Enviro Systems	CP-7500	29845

Table 1.6-3: Aggregate Plant Emission Units

EU	Description	Make	Model No.	Serial No.
A082a-f	Six Conveyors Integrated with A082	Metso	LT200HPS	79797
A083a-d	Four Conveyors Integrated with A083	Metso	LT106	79834
A081a-d	Four Conveyors Integrated with A081	Metso	ST3.8	79742
A080	Conveyor Transfer Point	Superior	F36X40STKP	W01281136
A081	Mobile Screen (with four conveyors)	Metso	ST3.8	79742
A082	Mobile Cone Crusher (with six conveyors)	Metso	LT200HPS	79797
A083	Mobile Jaw Crusher	Metso	Nordberg LT106	79834
A078	Conveyor Transfer Point	Screen Machine	09X133771	CH40-36-D-J12345
A079	Conveyor Transfer Point	Eagle Technologies Group		
A019	Crusher	Eagle	62D370	11361
A020	Wash Plant Screen	JCI	JCI516326	00H03L26
A024	Conveyor Transfer Point	Eagle	PRSC	2701
A025	Conveyor Transfer Point	Eagle	PRSC	2702
A026	Conveyor Transfer Point	Eagle	PRSC	2694
A027	Storage Pile	Gravel-Dirt, 2.0 Acres		
A034	Conveyor	Eagle	36D3879	30318
A035	Conveyor	Kolman	101	
A036	Conveyor	Kolman	101	
A037	Conveyor	Goodfellow		
A038	Conveyor	Goodfellow		
A069	Transfer Auger	KPI-JCI	5030-25S	409350
A071	Conveyor	Screen Machine		TE60-30-JD1731

EU	Description	Make	Model No.	Serial No.
A074	Storage Pile Bin (aggregate base material)			
A075	Screen	Eagle	M110B	4563
A084	Stacker	Pioneer Conveyor	North Star 11049	ILCGT2435PR59C-L

Table 1.6-4: Haul Roads

EU	Description
A028	Paved Haul Road, 10,950 Vehicle Miles Travel (VMT) per consecutive 12-months
A072	Unpaved Haul Road, 10,950 Vehicle Miles (VMT) per consecutive 12-months

1.6.2 **Controls**

1.6.2.1 Control Devices

No control devices have been identified.

1.6.2.2 Control Requirements

Mineral Processing Equipment

1. The permittee shall incorporate, and maintain in good operating condition at all times, an effective water suppression system to control visible emissions within allowable opacity limits for the following emission units: A019, A020, A024 through A027, A034, A037 through A039, A069 through A071, A075, and A078 through A083d. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and 114 Title V OP (04/20/16) and (04/30/20)]*

2. The permittee shall take continual measures to control fugitive dust (e.g. wet, chemical or organic suppression, enclosures, etc.) at all mining and aggregate processing operations, material transfer points, stockpiles, truck loading stations and haul roads throughout the source to comply with the applicable opacity standards. *[AQR 41.1]*

3. The permittee shall sweep and/or rinse paved roads accessing or located on the site as necessary to remove all accumulated deposits and so as not to exhibit an average opacity in excess of 20 percent for a period or periods totaling more than 6 minutes in any 60 minute period. *[AQR 41.1]*

4. The permittee shall control fugitive emissions on unpaved roads accessing or located on the site by treating with chemical or organic dust suppressant and/or watered as necessary, or paved, or graveled, or have an alternate, Control Officer approved, control measure applied, so as not to exhibit an average opacity in excess of 20 percent for a period or periods totaling more than 6 minutes in any 60 minute period. *[AQR 41.1]*

Asphalt Plant

5. The permittee shall incorporate, and maintain in good operating condition at all times, an effective water suppression system to control visible emissions within allowable opacity limits for the following emission units: A040 through A050 and A061 through A063. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and 114 Title V OP (09/18/15)]*

6. The permittee shall use a baghouse on the Drum Mixer (EU: A047) to control particulate emissions at all times the processing equipment is operating. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

7. The permittee shall maintain and operate the baghouse on the Drum Mixer (EU: A047) to attain an effective seal and particulate control efficiency of 90.0 percent. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

8. The permittee shall maintain an effective seal around the baghouse by correcting all leaks adversely affecting its performance. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

9. The permittee shall maintain the pressure drop across the baghouse within a normal operating range as defined by manufacturer's O&M manual and as demonstrated through monitoring records (EU: A047). *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

Concrete Plant [NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]

10. The permittee shall incorporate, and maintain in good operating condition at all times, an effective water suppression system to control visible emissions within allowable opacity limits for the following emission units: A017, A018, A054 through A060, and A064 through A067.

11. The permittee shall use bin vents on the cement silos to control particulate emissions at all times the processing equipment is operating (EUs: A054, A055, and A077).

12. The permittee shall maintain and operate the bin vents on the two cement silos to attain an effective seal and particulate control efficiency of 99.0 percent (EUs: A054, A055, and A077).

13. The permittee shall ensure that there is an effective seal on the bin vents by maintaining the bin vents in accordance with the manufacturer's O&M manual. *[AQR 12.5.2.6(d)]*

Fugitive Dust [NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]

14. The permittee shall not cause or allow the discharge of fugitive dust in excess of 100 yards from the point of origin or beyond the lot line of the property on which the emissions originate, whichever is less.

15. The permittee shall not track out onto a paved road mud or dirt that extends 50 feet or more in cumulative length from the point of origin or allow any trackout to accumulate to a depth greater than 0.25 inches. Notwithstanding the preceding, all accumulations of mud or dirt on curbs, gutters, sidewalks or paved roads including trackout less than 50 feet in length and 0.25 inches in depth, shall be cleaned of all accumulated deposits and maintained to eliminate emissions of fugitive dust.

16. The permittee shall control fugitive dust emissions from any disturbed open area or disturbed vacant lot that are owned or operated by the permittee by paving, applying gravel, applying a dust palliative or applying water to form a crust.

17. The permittee shall implement long-term stabilization of disturbed surfaces when the stationary source, or a portion thereof, is to be closed or idled for a period of 30 days or more, within 10 days following the cessation of active operations. Long-term stabilization

includes, but is not limited to one or more of the following: applying water to form a crust, applying palliatives, applying gravel, paving, and denying unauthorized access, or other effective control measure to prevent fugitive dust from becoming airborne.

18. The permittee shall effectively cover all loaded trucks leaving the site and carrying loose materials to reduce emissions of dust. This condition applies to trucks regardless of whether they are owned and operated by the owner/operator.

19. The permittee shall not cause or allow the handling, transporting, or storage of any material in a manner that may or does allow controllable particulate matter to become airborne. [AQR 41.1.2]

General [NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]

20. The Control Officer at any time may require additional water sprays at pertinent locations if an inspection indicates the six minute opacity limit is being exceeded.

21. The permittee shall not cause, suffer or allow the discharge from any source whatsoever such quantities of air contaminants or other material which cause a nuisance, including excessive odors. *[AQR 40 and AQR 43]*

1.6.3 **Limitations and Standards**

1.6.3.1 Operational Limits

1. The permittee shall limit production at the asphalt plant (EUs: A040 through A049, and A061 through A063) to 130 tons of material per hour and 18,000 tons of material in any consecutive 12-months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and 114 Title V OP (09/18/15) and 04/30/20)]*

2. The permittee shall limit the amount of diesel fuel used for the 1.2 MMBtu/hr asphalt plant burner (EU: A050) to 16,800 gallons in any twelve consecutive month period. *[NSR ATC/OP, Modification 46, Revision 1 (11/17/08)]*

3. The permittee shall limit production at the concrete batch plant (EUs: A017, A018, A054 through A060, A064 through A067, and A077) to 810 tons of material per hour and 15,000 tons of material in any consecutive 12-months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and 114 Title V OP (09/18/15) and (04/30/20)]*

4. The permittee shall limit the production at the aggregate facility (EUs: A019, A020, A024 through A027, A034 through A039, A069, A070, A071, A075, and A078 through A83d) to produce 300 tons of material per hour and 100,000 tons of material in any consecutive 12-months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08), 114 Title V OP (09/18/15), (04/20/16), (04/30/20), and (02/24/22)]*

5. The permittee shall limit traffic to a maximum of 10,950 VMT in any consecutive 12-months on the paved haul road (EU: A028). *[114 Title V OP (07/01/17)]*

6. The permittee shall limit traffic to a maximum of 10,950 VMT in any consecutive 12-months (EU: A072) on the unpaved haul road. *[114 Title V OP (07/01/17)]*

7. The permittee shall process only mined rock, and shall not process alluvial sand or gravel. *[AQR 12.5.2.6(a)]*

1.6.3.2 Emission Limits

1. The permittee shall not discharge or cause the discharge into the atmosphere from any Hot Mix Asphalt facility, including all the emission units listed in Table 1.6-1, emissions exceeding 20 percent opacity. *[40 CFR 60.92]*

2. The permittee shall not discharge or cause the discharge into the atmosphere from the asphalt drum (EU: A047) emissions containing particulate matter in excess of 0.04 gr/dscf (90 mg/dscm). *[ATC/OP 114, Modification 37, Revision 1 (03/13/2008) and 40 CFR 60.92]*

3. The permittee shall not allow visible emissions from binvents associated with the Concrete Batch Plant, listed in Table 1.6-2, greater than 7 percent opacity (EUs: A054, A055, A058, A059, and A077). *[ATC/OP 114, Modification 37, Revision 1 (03/13/2008), Condition X.B.2.j, and 114 Title V OP (09/18/15) and (04/30/20)]*

4. The permittee shall not allow visible emissions from the Concrete Batch Plant emission units, listed in Table 1.6-2, to exceed 20 percent opacity. *[AQR 26.1]*

5. The permittee shall not allow visible emissions from the Aggregate Processing facility, including the emission units listed in Tables 1.6-1, 1.6-3, and 1.6-4 to exceed the following standards:

    i. from any screening equipment, conveyors, storage piles, stackers, transfer point on belt conveyors, that commenced construction, modification, or reconstruction after August 31, 1983, but before April 22, 2008, fugitive emissions shall not exhibit greater than 10 percent opacity (EUs: A020 and A024 through A026); *[40 CFR 60.672]*

    ii. from any crusher that commenced construction, modification, or reconstruction after August 31, 1983, but before April 22, 2008, at which a capture system is not used, fugitive emissions shall not exhibit greater than 15 percent opacity (EU: A019); *[40 CFR 60.672]*

    iii. from any screening equipment, conveyors, storage piles, stackers, transfer point on belt conveyors, that commenced construction, modification, or reconstruction after August 31, 1983, but before April 22, 2008, fugitive emissions shall not exhibit greater than 7 percent opacity (EUs: A027, A034 through A038, A044 through A046, A069, A071, A074, A075, A082a-f, A083a-d, A081a-d, A078 through A081, and A084); *[40 CFR 60.672]*

    iv. from any crusher that commenced construction, modification, or reconstruction on or after April 22, 2008, at which a capture system is not used, fugitive emissions shall not exhibit greater than 12 percent opacity (EUs: A082 and A083); *[40 CFR 60.672] and*

    v. from any other fugitive emission source, fugitive emissions shall not exhibit greater than 20 percent opacity. *[AQR 26.1]*

6. The permittee shall not allow the actual emissions from the mineral processing emission units to exceed the PTE listed in Tables 1.6-5 through 1.6-9, in any consecutive 12-months.

[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and 114 Title V OP (09/18/15), (04/20/16), (04/30/20), (06/15/21) and (02/24/22)]

Table 1.6-5: PM_{10} PTE Asphalt Plant Processing Emission Units

EU	Throughput (tons/hour)	Throughput (tons/year)	PM_{10} EF (lbs/ton)	$PM_{2.5}$ EF (lbs/ton)	Control Efficiency[1] (%)	PM_{10} (lb/hr)	PM_{10} (ton/yr)	$PM_{2.5}$ (lb/hr)	$PM_{2.5}$ (ton/yr)
A040	130	18,000	0.0011	0.000308	90.0	0.14	0.01	0.04	0.01
A041	130	18,000	0.0011	0.000308	90.0	0.14	0.01	0.04	0.01
A042	130	18,000	0.0011	0.000308	90.0	0.14	0.01	0.04	0.01
A043	130	18,000	0.0011	0.000308	90.0	0.14	0.01	0.04	0.01
A044	130	18,000	0.0011	0.000308	90.0	0.14	0.01	0.04	0.01
A045	130	18,000	0.0087	0.000609	90.0	1.13	0.08	0.08	0.01
A046	130	18,000	0.0011	0.000308	90.0	0.25	0.01	0.07	0.01
A047	130	18,000	0.023	0.0029	90.0	5.18	0.21	0.65	0.03
A048	130	18,000	0.0025	0.0025	90.0	0.56	0.02	0.56	0.02
A049	130	18,000	0.0025	0.0025	90.0	0.56	0.02	0.56	0.02
A050	9.21 gal/hr	16,800 gal/yr	2	2		0.02	0.02	0.02	0.02
A061	130	18,000	0.0011	0.000308	90.0	0.14	0.01	0.04	0.01
A062	130	18,000	0.0011	0.000308	90.0	0.14	0.01	0.04	0.01
A063	0.25 acres		1.66 lb/acre-day	0.249 lb/acre-day		0.08	0.08	0.01	0.01

[1]Controlled emission factor reflecting use of water sprays to reduce particulate in materials less than one-quarter inch in diameter.

Table 1.6-6: PTE Asphalt Plant (tons per year)

EU	Description	PM_{10}	$PM_{2.5}$	NO_X	CO	SO_2	VOC	HAP
A040	Hopper 1	0.01	0.01	0.00	0.00	0.00	0.00	0.00
A041	Hopper 2	0.01	0.01	0.00	0.00	0.00	0.00	0.00
A042	Hopper 3	0.01	0.01	0.00	0.00	0.00	0.00	0.00
A043	Hopper 4	0.01	0.01	0.00	0.00	0.00	0.00	0.00
A044	Gathering Conveyor	0.01	0.01	0.00	0.00	0.00	0.00	0.00
A045	Screen	0.08	0.01	0.00	0.00	0.00	0.00	0.00
A046	Charging Conveyor	0.01	0.01	0.00	0.00	0.00	0.00	0.00
A047	Drum Mixer	0.21	0.03	0.50	1.17	0.10	0.29	0.07
A048	Conveyor - Load Out	0.02	0.02	0.00	0.08	0.00	0.24	0.00
A049	Hopper - Load Out	0.02	0.02	0.00	0.08	0.00	0.24	0.00
A050	Burner	0.02	0.02	0.17	0.04	0.01	0.01	0.01
A061	Conveyor	0.01	0.01	0.00	0.00	0.00	0.00	0.00
A062	Conveyor	0.01	0.01	0.00	0.00	0.00	0.00	0.00
A063	Storage Pile	0.08	0.01	0.00	0.00	0.00	0.00	0.00

Table 1.6-7: PTE Concrete Plant (tons per year)

EU	Throughput (tons/hour)	Throughput (tons/year)	PM_{10} EF (lbs/ton)	$PM_{2.5}$ EF (lbs/ton)	Control Efficiency[1] (%)	PM_{10} (lbs/hr)	PM_{10} (tons/yr)	$PM_{2.5}$ (lb/hr)	$PM_{2.5}$ (ton/yr)
A077	810	15,000	0.47	0.0752	99.0	3.81	0.04	0.61	0.01
A017	0.10 acres		1.66 lb/acre-day	0.249 lb/acre-day		0.01	0.03	0.01	0.01
A018	0.05 acres		1.66 lb/acre-day	0.249 lb/acre-day		0.01	0.02	0.01	0.01
A054	810	15,000	0.47	0.0752	99.0[2]	3.81	0.04	0.61	0.01
A055	810	15,000	0.47	0.0752	99.0[2]	3.81	0.04	0.61	0.01

EU	Throughput (tons/hour)	Throughput (tons/year)	PM_{10} EF (lbs/ton)	$PM_{2.5}$ EF (lbs/ton)	Control Efficiency[1] (%)	PM_{10} (lbs/hr)	PM_{10} (tons/yr)	$PM_{2.5}$ (lb/hr)	$PM_{2.5}$ (ton/yr)
A056	810	15,000	0.0031	0.000868	90.0	0.25	0.01	0.07	0.01
A057	810	15,000	0.156	0.02496	90.0	12.64	0.12	2.02	0.02
A058	810	15,000	0.0033	0.000924	90.0	0.27	0.01	0.07	0.01
A059	810	15,000	0.00099	0.0002772	0	0.80	0.01	0.22	0.01
A060	810	15,000	0.0031	0.000868	90.0	0.25	0.01	0.07	0.01
A064	810	15,000	0.0031	0.000868	90.0	0.25	0.01	0.07	0.01
A065	810	15,000	0.0031	0.000868	90.0	0.25	0.01	0.07	0.01
A066	810	15,000	0.0033	0.000924	90.0	0.27	0.01	0.07	0.01
A067	810	15,000	0.0028	0.000784	90.0	0.23	0.01	0.06	0.01

[1]90.0 percent control efficiency.
[2]99 percent control efficiency for silos based on binvent control.

Table 1.6-8: PTE Aggregate Plant (tons per year)

EU	Throughput (tons/hour)	Throughput (tons/year)	PM_{10} EF (lbs/ton)	$PM_{2.5}$ EF (lbs/ton)	Control Efficiency (%)	PM_{10} (lbs/hr)	PM_{10} (tons/yr)	$PM_{2.5}$ (lb/hr)	$PM_{2.5}$ (ton/yr)
A082a	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A082b	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A082c	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A082d	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A082e	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A082f	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A083a	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A083b	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A083c	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A083d	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A081a	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A081b	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A081c	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A081d	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A080	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A081	300	100,000	0.0087	0.000609	0	2.61	0.44	0.18	0.03
A082	300	100,000	0.0024	0.000456	0	0.72	0.12	0.14	0.02
A083	300	100,000	0.0024	0.000456	0	0.72	0.12	0.14	0.02
A078	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A079	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A019	300	100,000	0.0024	0.000456	0	0.72	0.12	0.14	0.02
A020	300	100,000	0.0087	0.000609	0	2.61	0.44	0.18	0.03
A024	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A025	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A026	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A027	2.00 acres		1.66 lb/acre-day	0.249 lb/acre-day		0.14	0.61	0.01	0.02
A034	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A035	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A036	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A037	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A038	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A069	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A071	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02
A074	0.83 acres		1.66 lb/acre-day	0.249 lb/acre-day		0.06	0.25	0.01	0.01

EU	Throughput (tons/hour)	Throughput (tons/year)	PM_{10} EF (lbs/ton)	$PM_{2.5}$ EF (lbs/ton)	Control Efficiency (%)	PM_{10} (lbs/hr)	PM_{10} (tons/yr)	$PM_{2.5}$ (lb/hr)	$PM_{2.5}$ (ton/yr)
A075	300	100,000	0.0087	0.000609	0	2.61	0.44	0.18	0.03
A084	300	100,000	0.0011	0.000308	0	0.33	0.06	0.09	0.02

Table 1.6-9: PTE Haul Road (tons per year)

EU	Throughput (VMT/yr)	PM_{10} EF (lbs/VMT)	$PM_{2.5}$ EF (lbs/VMT)	Control Efficiency[1] (%)	PM_{10} (lbs/hr)	PM_{10} (tons/yr)	$PM_{2.5}$ (lb/hr)	$PM_{2.5}$ (ton/yr)
A028	10,950	7.57	1.1355	98.0	2.12	0.83	0.32	0.12
A072	10,950	7.57	0.757	90.0	10.60	4.14	1.06	0.41

1.6.4 **Compliance Demonstration Requirements**

1.6.4.1 Monitoring

Visible Emissions

See Section 2.0.

Mineral Processing Equipment [AQR 12.5.2.6(d)]

1. The permittee shall visually inspect the water spray system once each day of operation at all emission units controlled through water suppression and monitor its effectiveness. Inspections shall include, but not be limited to, flow rates, leaks, and nozzle conditions, as applicable.
2. The permittee shall monitor the throughput of all mineral products in tonnage.

Bin Vents [AQR 12.5.2.6(d)]

3. The permittee shall visually inspect the bin vents when in operation at least monthly for air leaks. Defective components shall be repaired or replaced within 5 working days of the discovery of the malfunction. Should the malfunction cause the bin vent to be ineffective in controlling particulate emissions, the processing of material shall cease until such repairs to the bin vent are completed (EUs: A054, A055, and A077).

4. The permittee shall develop and follow a preventative maintenance schedule that is consistent with the bin vent manufacturer's O&M manual for routine and long-term maintenance.

Baghouses [AQR 12.5.2.6(d)]

5. When in use, the permittee shall conduct daily monitoring of the pressure drop across baghouse cell with the installation and operation of a pressure differential (Magnehelic) gauge per manufacturer's O&M manual (EU: A047).

6. The permittee shall visually inspect the baghouse interior at least monthly for air leaks. Defective baghouse compartments shall be sealed off and repairs completed within 5 working days of the discovery of the malfunction or if repairs cannot be made within five days from detection, repairs must be completed before the next operation of the material processing equipment connected to the baghouse. Should the malfunction cause the baghouse to be

ineffective in controlling particulate emissions, the processing of material shall cease until such repairs to the baghouse are completed.

7. The permittee shall have a standard operating procedures (SOP) manual for the baghouse. The procedures specified in the manual for maintenance shall, at a minimum, include a preventative maintenance schedule that is consistent with the baghouse manufacturer's O&M manual for routine and long-term maintenance (EU: A047).

8. When in use, the permittee shall conduct daily visual observations of baghouse and/or stack discharges to verify that visible emissions are not present in excess of allowable opacity limits. If they are, the permittee shall cease operations producing the emissions until the problem is corrected.

Haul Roads/Disturbed Surfaces [AQR 12.5.2.6(d)]

9. Compliance with the opacity standards for paved and unpaved roads contained within the permit shall be demonstrated, when required by the Control Officer, in accordance with one of the following, as applicable:

    a. EPA Method 9 (Standards for Opacity); or

    b. The test method set forth in AQR 94.12.4: Instantaneous Method.

1.6.4.2 Testing

1. The permittee shall demonstrate compliance with the concentration standards in Section 1.6.3.2 of this permit by conducting an initial performance test on the Hot Mix Asphalt drum (EU: A047), that has operated during the calendar year, in accordance with 40 CFR Part 60, Subpart A and Subpart I, and EPA Method 5. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf). A report of the results shall be submitted to the Control Officer. *[40 CFR 60.93 and AQR 12.5.2.8(a)]*

    a. The permittee shall conduct subsequent Method 5 performance testing every five years, no later than 90 days after the anniversary date of the last successful performance test (EU: A047). *[AQR 12.5.2.8(a)]*

2. The permittee shall demonstrate compliance with the opacity standards in Section 1.6.3.2 of this permit by conducting an initial performance test on all mineral processing equipment (EUs: A017 through A020, A024 through A027, A034, A037, A038, A047, A054 through A060, A064 through A069, A071, and A078 through A083d) that has operated during the calendar year, in accordance with 40 CFR Part 60, Subpart A and Subpart I, and EPA Method 9. For the purpose of initial compliance, the minimum total time of observations shall be 3 hours (thirty 6-minute averages). A report of the results shall be submitted to the Control Officer. *[40 CFR 60.93 and AQR 12.5.2.8(a)]*

3. The permittee shall comply with the general testing requirements identified in Section 3.0. *[AQR 12.5.2.8]*

1.6.4.3 Recordkeeping

1. The permittee shall keep and maintain the following records, all of which must be producible on-site to the Control Officer's authorized representative upon request and without prior notice during the permittee's hours of operation: *[AQR 12.5.2.6(d)(2)]*

Opacity

a. the dates and time of the visible emissions check, the name of the person conducting the check, the results of the check, and the type of corrective action taken per Section 2.0 (if required);

b. a log book of excess opacity and any corrective actions taken;

Inspections/Maintenance/General

c. log of control device inspections, maintenance and repair;

d. log of dust control measures applied to the paved haul road, unpaved haul road, parking lots, and vacant areas;

Mineral Processing Equipment

e. baghouse pressure differential;

f. the results of any performance testing;

Monthly and Annual Throughput

g. monthly, consecutive 12-month total amount of material excavated and/or processed through the rock crushers and screens (reported semiannually);

h. monthly, consecutive 12-month total amount of concrete produced at the concrete batch plant (reported semiannually);

i. monthly, consecutive 12-month total amount of asphalt produced at the asphalt batch plant (reported semiannually); and

j. monthly, consecutive 12-month total vehicles miles traveled on haul road(s) and the length of the haul road(s) (reported semiannually);

Emissions

k. Deviations from permit requirements that result in excess emissions (reported as required in Section 5.0 of this permit);

l. Deviations from permit requirements that do not result in excess emissions (reported semiannually); and

m. Calendar year annual emissions calculated for each emission unit in this section (reported annually).

2. The permittee shall include in each record above, where applicable, the date and time the monitoring or measurement was taken, the person performing the monitoring or

measurement, and the emission unit or location where the monitoring or measurement was performed. Each record must also contain the action taken to correct any deficiencies, when applicable. *[AQR 12.5.2.6(d)]*

3. The permittee shall comply with the general recordkeeping requirements identified in Section 4.0.

1.6.4.4 Reporting

1. If at any time, the permittee replaces all existing equipment in a production line with new equipment, the permittee shall submit all information about the existing equipment and its replacement equipment to the Administrator. *[40 CFR 60.676]*

1.7 PAINT BOOTHS

1.7.1 Emission Units

1. The stationary source covered by this Part 70 OP includes the emission units and associated appurtenances summarized in Table 1.7-1. *[AQR 12.5.2.3; NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); and 114 Title V OP (04/20/16), (01/03/17), (07/01/17), and (04/30/20)]*

Table 1.7-1: List of Emission Units

EU	Building	Description	Make	Model No.	Serial No.
D001	252-1	Paint Booth	JBI	F-22	30807-A
D018	252-2	Paint Booth	Pauli Systems, Inc.		
D004	256-2	Paint Booth	Pauli Systems, Inc.	Custom Design	SNMFGBJ25/1
D028	474	Paint Booth			
D005	807	15’7” x 7’7” x 8’ Paint Booth	Binks		83-2448
D006	868	Paint Booth	Binks	SDT-44-PSB-S	25268
D033	868	Mobile Paint Booth	Shop-pro Equipment Inc.	5430	690104-534
D034	Flight Line	Mobile Paint Booth	Clayton	TV-1400	
D009	10148	Paint Booth	Bleeker Bros	TSDT-40	00-142
D022	10305	Paint Booth	Dwyer Mark II/SATA		

1.7.2 Controls

1.7.2.1 Control Devices

1. No add-on controls have been identified.

1.7.2.2 Control Requirements

Particulates and Overspray

1. The permittee shall not operate spray booths unless all exhaust air passes through appropriate filter media having a particulate capture efficiency of at least 99 percent of the overspray

(EUs: D001, D004, D005, D006, D018, D022, and D028). *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and 114 Title V OP (04/20/16)]*

2. The permittee shall not operate spray booth EU: D009 unless all exhaust air passes through appropriate filter media having a particulate capture efficiency of at least 95 percent. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

3. The permittee shall not operate spray booth EU: D033 unless all exhaust air passes through appropriate filter media having a particulate capture efficiency of at least 98 percent. *[114 Title V OP (04/30/20)]*

4. The permittee shall not operate spray booth unless all exhaust air passes through appropriate filter media having a particulate capture efficiency of at least 98.6 percent (EU: D034). *[114 Title V OP (04/30/20)]*

5. The permittee must cover all openings in dry filter media in all of the spray booths (EUs: D001, D004, D005, D006, D009, D018, D022, D028, D033 and D034). *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

6. All painting must be performed in the spray paint booth using an HVLP gun having at least 65 percent transfer efficiency. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

7. The spray booths equipped with a VOC control device (EUs: D001, D004, and D018) shall maintain at least a 90 percent control efficiency. The VOC control device shall be in operation at all times the surface coating is occurring. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

8. Filters must cover all openings leading to the fan. All filters or other control equipment shall follow manufacturer's O&M manual for use and operation. Dry filters must be changed at sufficient intervals to prevent a decrease in their effectiveness, and to prevent them from clogging. *[AQR 12.5.2.6] (Not Federally Enforceable)*

9. The permittee shall follow the manufacturer's operation and maintenance (O&M) manual for use and operation of exhaust filters. *[AQR 12.5.2.6]*

10. The differential pressure drop shall not exceed 0.25 inch (6.35 mm) of water column unless the O&M manual specifies a different value. *[AQR 12.5.2.6]*

11. Exhaust filters must be replaced before exceeding 0.25 inch (6.35 mm) of water column or, if the O&M manual specifies a different pressure drop value, before exceeding that value. *[AQR 12.5.2.6]*

Vapors

12. Open containers shall not be used for storage or disposal of solvent-containing cloth or paper (excluding masking tape) used for surface preparation and cleanup. *[AQR 12.5.2.6]*

13. Surface coating application equipment shall be cleaned in an enclosed container to minimize VOC volatilization into the ambient air. *[AQR 12.5.2.6] (Not Federally Enforceable)*

14. All solvent containers shall remain securely closed, except during product transfer. Containers shall be inspected regularly for leakage, and the contents of any leaking container

shall be immediately transferred to an appropriately labeled container that has been specifically designed for storage of the compound. *[AQR 12.5.2.6 and AQR 104.6] (Not Federally Enforceable)*

Other

15. Pursuant to AQR Sections 40 and 43, no person shall cause, suffer or allow the discharge from any source whatsoever such quantities of air contaminants or other material which cause a nuisance, such as over spray or excessive odors from the spray painting operation or associated operations. *[AQR 40.1] (Not Federally Enforceable)*

1.7.3 **Limitations and Standards**

1.7.3.1 Operational Limits

1. The maximum gallons of paint used by each paint booth at NAFB shall be limited as follows in Table 1.7-2, in any consecutive 12-months: *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and 114 Title V OP (09/18/15) and (04/30/20)]*

Table 1.7-2: Maximum Allowable Gallons of Surface Coating Materials (gallons/year)

EU	Building	Topcoat	Primer	Cleaning	Specialty Coating
D001	252-1	1,500	450	200	1,500
D018	252-2	1,500	450	200	1,500
D004	256-2	7,000	1,000	215	1,500
D028	474	200	125	125	0
D005	807-1	350	25	25	0
D006	868-1	520	190	40	0
D009	10148-1	350	50	30	0
D022	10305-1	180	0	40	0
D033	868	100	50	50	0
D034	Flight Line	1,500	450	200	0

2. The VOC and HAP content of surface coating materials shall not exceed the limits outlined in Table 1.7-3 at any time. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and 14 Title V OP (09/18/15) and (04/30/20)]*

Table 1.7-3: Allowable VOC and HAP Content of Surface Coating Materials

EU	Topcoat (lbs/gal)		Primer (lbs/gal)		Cleaning (lbs/gal)		Specialty Coating (lbs/gal)	
	VOC	HAP	VOC	HAP	VOC	HAP	VOC	HAP
D001	4.10	2.05	5.88	2.94	7.49	5.24	9.0	5.24
D018	4.10	2.05	5.88	2.94	7.49	5.24	9.0	5.24
D004	4.10	2.05	5.88	2.94	7.49	5.24	9.0	5.24
D028	5.70	2.85	6.45	3.23	7.49	5.24		
D005	5.00	2.05	4.00	2.00	7.49	5.24		
D006	5.70	2.85	6.45	3.23	7.49	5.24		
D009	5.70	2.85	6.45	3.23	7.49	5.24		
D022	4.10	2.05	5.88	2.94	7.49	5.24		
D033	5.7	2.85	6.45	3.23	7.49	5.24		
D034	4.1	2.05	5.88	2.94	7.49	5.24		

1.7.3.2 Emission Limits

1. The permittee shall not discharge into the atmosphere, from any emission unit, any air contaminant in excess of an average of 20 percent opacity for a period of more than 6 consecutive minutes. *[AQR 26.1]*

2. The permittee shall not discharge from any source whatsoever quantities of air contaminants or other material which cause a nuisance. *[AQR 40.1]*

3. The permittee shall not allow the actual emissions from each paint booth to exceed the PTE listed in Table 1.7-4, in any consecutive 12-months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); 114 Title V OP (10/28/13), (09/18/15), (04/20/16), (01/03/17), (07/01/17), and (04/30/20); and AQR 12.5.2.3]*

Table 1.7-4: Paint Booths PTE (tons per year)

EU	PM_{10}	$PM_{2.5}$	VOC	HAP
D001	0.06	0.06	1.19	0.67
D018	0.06	0.06	1.19	0.67
D004	0.15	0.15	2.48	1.31
D028	0.01	0.01	1.44	0.81
D005	0.01	0.01	1.02	0.45
D006	0.01	0.01	2.24	1.15
D009	0.03	0.03	1.27	0.66
D022	0.01	0.01	0.52	0.29
D033	0.01	0.01	0.63	0.35
D034	0.05	0.05	5.15	2.72

1.7.4 **Compliance Demonstration Requirements**

1.7.4.1 Monitoring

Surface Coating Equipment

1. The permittee shall monitor the pressure drops across the spray booth filters using a manometer (or equivalent). *[AQR 12.5.6(d)(1)]*

2. The permittee shall monitor the spray booths and all ancillary equipment for leaks, malfunctions, proper operation of gauges, and pressure drops each day the booth is operated. A log must be kept of such inspections, as well as of any corrective actions taken to repair the equipment regarding leaks, malfunctions, operation of gauges, pressure drops, or other parameter(s) that may result in excess emissions. *[AQR 12.5.2.6(d)(1)]*

3. The permittee shall monitor the consumption of each VOC/HAP-containing compound (e.g., paint, strippers, paint basecoats, primers, reducers, thinners, solvents, etc.) in gallons. *[AQR 12.5.6(d)(1)]*

1.7.4.2 Testing

1. No performance testing requirements have been identified for any emission unit in this section at this time.

1.7.4.3 Recordkeeping

1. The permittee shall keep and maintain the following records, all of which must be producible on-site to the Control Officer's authorized representative upon request and without prior notice during the permittee's hours of operation: *[AQR 12.5.2.6(d)(2) and AQR 104.9.2]*

Inspections/Maintenance/General

a. Equipment inspections, maintenance, and repair;

b. Safety data sheets or records demonstrating the VOC and HAP content of each VOC-containing compound (paints, basecoats, primers, reducers, thinners, solvents, etc.);

c. Spray booths pressure drop readings;

Product Consumption

d. Monthly, consecutive 12-month total consumption (in gallons) of each VOC/HAP-containing compound (paints, basecoats, primers, reducers, thinners, solvents, etc.) (reported semiannually);

e. A table containing a list of all compounds recorded pursuant to Condition 1.7.4.3.1.d, the total consecutive 12-month usage of the compound, the VOC content of the compounds and the HAP content of the compound (reported semiannually);

Emissions

f. Deviations from permit requirements that result in excess emissions (reported as required in Section 5.0 of this permit);

g. Deviations from permit requirements that do not result in excess emissions (reported semiannually); and

h. Calendar year annual emissions calculated for each emission unit in this section (reported annually).

2. The permittee shall include in each record above, where applicable, the date and time the monitoring or measurement was taken, the person performing the monitoring or measurement, and the emission unit or location where the monitoring or measurement was performed. Each record must also contain the action taken to correct any deficiencies, when applicable.

3. The permittee shall comply with the general recordkeeping requirements identified in Section 4.0.

1.8 COOLING TOWERS

1.8.1 **Emission Units**

1. The stationary source covered by this Part 70 OP includes the emission units and associated appurtenances summarized in Table 1.8-1. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); 114 Title V OP Significant Revision (10/28/13); 114 Title V OP (09/18/15),*

(04/20/16), (04/30/20) and (02/24/22); Application for Part 70 OP Revision (11/22/22); and AQR 12.5.2.3]

Table 1.8-1: List of Emission Units

EU	Building	Make	Model No.	Serial No.
C029	11	Baltimore Aircoil	PT2-0709A-2J1	U220038001-01-01
C024	119	Evapco	AT-212-69	15762603
C002	200	BAC	PT2-0709A3L1	U190133601-02-01
C003	200	BAC	PT2-0709A3L1	U190133601-01-01
C021	340	BAC	XES3E-1020-06L-01	U136598901-01
C005	554	Evapco	USS19114	13522085
C009a	625	Evapco	USSUAT1966	11462927
C018	625	Evapco	AT 19-66	9373392
C011	704	Evapco	USS-14-89	16-799753
C013a	791	Reymsa	HRFG 714275	H46M3M1142A12431255
C014	1301	Marley	NC8304E-1SS	231320-A1
C015	1301	Marley	NC8304E-1SS	231320-B1
C016	1301	Marley	NC8304E-1SS	231320-C1
C017	1301	Marley	NC8307SG-08	834273-A1
C019	1705	Evapco	AT 29-324	10399579
C028	1706	AAON	LL-090-3-0-MCOV-000	201301-BAAH00031
C030	1733	Evapco	ATWB 12-6M18	21P112662
C031	1733	Evapco	ATWB 12-6M18	21P112663
C012a	61697	Evapco	USS-14-84	16-799754

1.8.2 **Controls**

1.8.2.1 Control Devices

1. No add-on controls have been identified.

1.8.2.2 Control Requirements

1. The permittee shall limit the drift rate (percent drift) to those listed in Table 1.8-2. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); 114 Title V OP (10/28/13), (09/18/15), (04/20/16), (10/19/17), and (04/30/20); Application for Part 70 OP Revision (11/22/22); and AQR 12.5.2.3]*

2. The permittee shall operate and maintain all cooling towers in accordance with the manufacturer's O&M manual for emissions-related components. No chromium-containing compounds shall be used for water treatment. *[AQR 12.5.2.3]*

1.8.3 **Limitations and Standards**

1.8.3.1 Operational Limits

1. The permittee shall limit the circulation rate (gallons per minute) and total dissolved solids (ppm) to those listed for each unit in Table 1.8-2. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); 114 Title V OP (10/28/13), (09/18/15), (04/20/16), and (04/30/20); Application for Part 70 OP Revision (11/22/22); and AQR 12.5.2.3]*

1.8.3.2 Emission Limits

1. The permittee shall not allow the actual emissions from the cooling tower operations to exceed the PTE listed in Table 1.8-2, in any consecutive 12-months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); 114 Title V OP (10/28/13), (09/18/15), and (04/30/20); Application for Part 70 OP Revision (11/22/22); and AQR 12.5.2.3]*

Table 1.8-2: PTE for Cooling Towers (tons per year)

EU	Capacity (gpm)	Percent Drift	TDS (ppm)	$PM_{2.5}$ (tons/yr)	PM_{10} (tons/yr)
C029	482	0.001	1,500	0.01	0.01
C024	480	0.001	6,400	0.03	0.03
C002	620	0.001	4,800	0.03	0.03
C003	620	0.001	4,800	0.03	0.03
C021	1,155	0.001	4,800	0.29	0.29
C005	700	0.001	4,800	0.17	0.17
C009a	396	0.001	4,800	0.02	0.02
C018	386	0.001	4,800	0.02	0.02
C011	339	0.005	4,800	0.02	0.02
C013a	937	0.005	4,800	0.23	0.23
C014	1,200	0.005	6,400	0.40	0.40
C015	1,200	0.005	6,400	0.40	0.40
C016	1,200	0.005	6,400	0.40	0.40
C017	1,654	0.005	6,400	0.55	0.55
C019	2,205	0.001	4,800	0.11	0.11
C028	280	0.001	6,400	0.02	0.02
C030	1,050	0.001	2,088	0.02	0.02
C031	1,050	0.001	2,088	0.02	0.02
C012a	145	0.005	4,800	0.01	0.01

2. The permittee shall not discharge into the atmosphere, from any emission unit in this section, any air contaminant in excess of an average of 20% opacity for a period of more than 6 consecutive minutes. *[AQR 26.1]*

1.8.4 **Compliance Demonstration Requirements**

1.8.4.1 Monitoring

1. The permittee shall conduct monthly TDS sampling of the cooling tower water using a TDS or conductivity meter to demonstrate compliance with the PTE of each cooling tower. *[AQR 12.5.2.6(d)]*

2. The Control Officer may require testing to demonstrate compliance with emission limitations outlined in this permit. *[AQR 12.5.2.6(d)]*

1.8.4.2 Testing

1. No performance testing requirements have been identified for any emission unit in this section at this time.

1.8.4.3 Recordkeeping

1. The permittee shall keep and maintain the following records, all of which must be producible on-site to the Control Officer's authorized representative upon request and without prior notice during the permittee's hours of operation: *[AQR 12.5.2.6(d)(2)]*

    a. monthly, consecutive 12-months total hours of operation for each cooling tower (reported semiannually);

    b. a. monthly TDS content of cooling tower circulation water;

Emissions

    c. Deviations from permit requirements that result in excess emissions (reported as required in Section 5.0 of this permit);

    d. Deviations from permit requirements that do not result in excess emissions (reported semiannually); and

    e. Calendar year annual emissions calculated for each emission unit in this section (reported annually).

2. The permittee shall include in each record above, where applicable, the date and time the monitoring or measurement was taken, the person performing the monitoring or measurement, and the emission unit or location where the monitoring or measurement was performed. Each record must also contain the action taken to correct any deficiencies, when applicable.

3. The permittee shall comply with the general recordkeeping requirements identified in Section 4.0.

1.9 WOODWORKING

1.9.1 Emission Units

1. The stationary source covered by this Part 70 OP includes the emission units and associated appurtenances summarized in Table 1.9-1. *[AQR 12.5.2.3; NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); NSR ATC (10/13/22); and 114 Title V OP (09/18/15) and (06/15/21)]*

Table 1.9-1: List of Emission Units

EU	Building	Number of Sanders	Number of Other Equipment	Control Device	Control Efficiency (percent)
E004	610	2	4	Portable Vacuum Units	99 percent
E001	807	6	14	Cyclone\Fabric Filter	99 percent
E002	811	0	5	Cyclone\Fabric Filter	99 percent
E003	10118	5	15	Cyclone\Fabric Filter and Portable Vacuum Units	99 percent

1.9.2 **Controls**

1.9.2.1 Control Devices

Control devices are identified in Table 1.9-1.

1.9.2.2 Control Requirements

1. The permittee shall maintain and operate all control devices used to control particulate emissions from all woodworking activities in all of the woodworking shops (EUs: E001 through E004) per manufacturers' O&M manual to maintain at least 99 percent control efficiency. *[114 Title V OP (04/30/20)]*

2. A preventative maintenance schedule that is consistent with the cyclone and/or fabric filter manufacturer's O&M manual for routine and long-term maintenance shall be developed and followed. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

3. The permittee shall have a standard operating procedures (SOP) manual for cyclones and fabric filters. The procedures specified in the manual for maintenance shall, at a minimum, include a preventative maintenance schedule that is consistent with the cyclone or fabric filter manufacturer's O&M manual for routine and long-term maintenance. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

1.9.3 **Limitations and Standards**

1.9.3.1 Operational Limits

1. The permit shall limit the number of sanders and other equipment used for woodworking to the numbers listed in Table 1.9-1. *[AQR 12.5.2.6(a)]*

1.9.3.2 Emission Limits

1. The permittee shall not discharge into the atmosphere, from any emission unit, any air contaminant in excess of an average of 20 percent opacity for a period of more than 6 consecutive minutes. *[AQR 26.1]*

2. The permittee shall not allow the actual emissions from the woodworking operation to exceed the PTE listed below in Table 1.9-2, in any consecutive 12-months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); NSR ATC (10/13/22); 114 Title V OP (10/28/13) and (09/18/15); and AQR 12.5.2.3]*

Table 1.9-2: PM_{10} PTE for Woodworking Shops

EU	Number of Sanders	Number of Other Equipment	Control Device	Control Efficiency (percent)	PM_{10} (tpy)	$PM_{2.5}$ (tpy)
E004	2	4	Portable Vacuum Units	99 percent	0.79	0.79
E001	6	14	Cyclone\Fabric Filter	99 Percent	2.54	2.54
E002	0	5	Cyclone\Fabric Filter	99 percent	0.44	0.44
E003	5	15	Cyclone\Fabric Filter and Portable Vacuum Units	99 percent	2.41	2.41

1.9.4 **Compliance Demonstration Requirements**

1.9.4.1 Monitoring

Visible Emissions

See Section 2.0.

Woodworking Equipment

1. The permittee shall monitor the number of sanders and other equipment used for woodworking operations. *[AQR 12.5.2.6(d)]*
2. Monthly visual inspection shall be made of the particulate control devices for air leaks. Defective cyclone and fabric filter compartments shall be sealed off and work orders for repairs shall be submitted within 72 hours of discovery of the malfunction, and all repairs shall be made in a timely manner. Should the malfunction cause the cyclone and/or fabric filter to be ineffective in controlling particulate emissions, the processing of material shall cease until such repairs to the cyclone and/or fabric filter are completed. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and AQR 12.5.2.6(d)]*
3. The Control Officer may require testing to demonstrate compliance with emission limitations outlined in this permit. *[AQR 12.5.2.6(d)]*

1.9.4.2 Testing

1. No performance testing requirements have been identified for any emission unit in this section at this time.

1.9.4.3 Recordkeeping

1. The permittee shall keep and maintain the following records, all of which must be producible on-site to the Control Officer's authorized representative upon request and without prior notice during the permittee's hours of operation: *[AQR 12.5.2.6(d)(2)]*

Inspections/Maintenance/General

a. Equipment inspections, maintenance, and repair;

b. Log of the number of sanders and other equipment used for woodworking operations;

Emissions

c. Deviations from permit requirements that result in excess emissions (reported as required in Section 5.0 of this permit);

d. Deviations from permit requirements that do not result in excess emissions (reported semiannually); and

e. Calendar year annual emissions calculated for each emission unit in this section (reported annually).

2. The permittee shall include in each record above, where applicable, the date and time the monitoring or measurement was taken, the person performing the monitoring or measurement, and the emission unit or location where the monitoring or measurement was performed. Each record must also contain the action taken to correct any deficiencies, when applicable.

3. The permittee shall comply with the general recordkeeping requirements identified in Section 4.0.

1.10 DEGREASERS

1.10.1 **Emission Units**

1. The stationary source covered by this Part 70 OP includes the emission units and associated appurtenances summarized in Table 1.10-1. *[AQR 12.5.2.3; NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); NSR ATC 114 (09/08/22); and 114 Title V OP (09/18/15), (04/20/16), (01/03/17), (07/01/17), (10/19/17), (04/30/20), (06/15/21) and (02/24/22) and Supplemental Application (12/04/2024)]*

Table 1.10-1: List of Emission Units

EU	Building	Make	Model	Serial Number	Capacity (gal)	Type of Cleaner
M013	858				7	
M047	858	Clarus	PCS-25	001925	7	

1.10.2 **Controls**

1.10.2.1 Control Devices

1. No add-on controls have been identified.

1.10.2.2 Control Requirements

1. The permittee shall implement good operating practices to reduce VOC emissions by ensuring that all lids to degreasing units remain closed except when the unit is in use. *[NSR ATC/OP 114, Modification 46, Revision 1]*

2. Pursuant to AQRs 40 and 43, the permittee shall not cause, suffer, or allow any source to discharge air contaminants (or other materials) in quantities that will cause a nuisance, including excessive odors. *[AQRs 40.1 and 43]*

1.10.3 **Limitations and Standards**

1.10.3.1 Operational Limits

1. The permittee shall limit each part cleaner (EUs: M013 and M047) to the hours of operations as outlined in Table 1.10-2 in any consecutive 12-months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); NSR ATC 114 (09/08/22) and (10/13/22); and 114 Title V OP (10/28/13), (09/18/15), (01/03/17), (07/01/17), (10/19/17), (04/30/20), and (06/15/21)]*

1.10.3.2 Emission Limits

1. The permittee shall not discharge into the atmosphere, from any emission unit, any air contaminant in excess of an average of 20 percent opacity for a period of more than 6 consecutive minutes. *[AQR 26.1]*

2. The permittee shall not discharge from any source whatsoever quantities of air contaminants or other material which cause a nuisance. *[AQR 40.1]*

3. The permittee shall not allow the actual emissions from each degreasing operation to exceed the PTE listed below in Table 1.10-2, in any consecutive 12-months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08); NSR ATC 114 (09/08/22); 114 Title V OP (10/28/13), (09/18/15), (04/20/16), (01/03/17), (07/01/17), (10/19/17), and (06/15/21); AQR 12.5.2.3; and Supplemental Application (12/04/2024)]*

Table 1.10-2: PTE for Degreasing Activities

EU	Hours/ Year	Area (ft^2)	EF (lb/hour/ft^2)	VOC (tons/year)	HAP (tons/year)
M013	208	1.7	0.08	0.01	0
M047	208	1.7	0.08	0.01	0

1.10.4 **Compliance Demonstration Requirements**

1.10.4.1 Monitoring

1. The permittee shall post signs at all degreasing areas that state that all lids to degreasing units must remain closed except when the unit is in use. *[AQR 12.5.2.6(d)]*

2. The permittee shall demonstrate compliance with the hourly emissions limitations for the degreasers units by maintaining a log of the date and hours and/or minutes that each part cleaner is in use (EUs: M013 and M047). *[AQR 12.5.2.6(d)]*

1.10.4.2 Testing

1. No performance testing requirements have been identified for any emission unit in this section at this time.

1.10.4.3 Recordkeeping

1. The permittee shall keep and maintain the following records, all of which must be producible on-site to the Control Officer's authorized representative upon request and without prior notice during the permittee's hours of operation: *[AQR 12.5.2.6(d)(2)]*

Degreaser Usage

a. monthly, consecutive 12-month total hours of operation of each part cleaner (EUs: M038 and M047) (reported semiannually);

b. date and hours, and/or minutes, that each part cleaner (EUs: M013 and M047) is in use.

Emissions

c. Deviations from permit requirements that result in excess emissions (reported as required in Section 5.0 of this permit);

d. Deviations from permit requirements that do not result in excess emissions (reported semiannually); and

e. Calendar year annual emissions calculated for each emission unit in this section (reported annually).

2. The permittee shall include in each record above, where applicable, the date and time the monitoring or measurement was taken, the person performing the monitoring or measurement, and the emission unit or location where the monitoring or measurement was performed. Each record must also contain the action taken to correct any deficiencies, when applicable.

3. The permittee shall comply with the general recordkeeping requirements identified in Section 4.0.

1.11 MISCELLANEOUS CHEMICALS

1.11.1 **Emission Units**

1. The stationary source covered by this Part 70 OP includes the activity summarized in Table 1.11.1. *[AQR 12.5.2.3 and NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

Table 1.11-1: Summary of Emission Activities

EU	Description
O01	Source-wide Miscellaneous Chemical Usage

1.11.2 **Controls**

1.11.2.1 Control Devices

1. No add-on controls have been identified.

1.11.2.2 Control Requirements

1. The permittee shall implement the following guidelines to reduce VOC emissions from miscellaneous chemical usage: *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08)]*

   a. minimize chemical usage, where possible;

   b. substitute low vapor pressure cleaners, where possible; and

   c. substitute low VOC alternatives, where possible.

2. Pursuant to AQRs 40 and 43, the permittee shall not cause, suffer, or allow any source to discharge air contaminants (or other materials) in quantities that will cause a nuisance, including excessive odors. *[AQRs 40.1 and 43]*

1.11.3 **Limitations and Standards**

1.11.3.1 Operational Limits

1. The permittee shall calculate the annual VOC emissions for miscellaneous chemical usage by using the following formula: Consumption * Density * VOC Content / 100, where:

   a. Consumption is the annual amount (in gallons) of each product used;

   b. Density is the lb/gallon of each product used; and

   c. VOC Content is the weight percent of VOC in each product used. *[114 Title V OP (06/15/21)]*

2. The permittee shall calculate the annual HAP emissions for miscellaneous chemical usage by using the following formula: Consumption * Density * HAP Content / 100, where:

   a. Consumption is the annual amount (in gallons) of each product used;

   b. Density is the lb/gallon of each product used; and

   c. HAP Content is the weight percent of HAP in each product used. *[114 Title V OP (06/15/21)]*

1.11.3.2 Emission Limits

1. The permittee shall not allow the actual emissions from the miscellaneous chemical usage to exceed the PTE listed in Table 1.11-2 in any consecutive 12 months. *[NSR ATC/OP 114, Modification 46, Revision 1 (11/17/08) and AQR 12.5.2.3]*

Table 1.11-2: PTE for Miscellaneous Chemical Usage (tons per year)

EU	VOC	HAP
O01	**19.14**	**2.82**

1.11.4 **Compliance Demonstration Requirements**

1.11.4.1 Monitoring

1. The permittee shall monitor the amount of VOC- and HAP-containing chemicals consumed. *[AQR 12.5.2.6(d)]*

1.11.4.2 Testing

1. No performance testing requirements have been identified for any emission units in this section at this time.

1.11.4.3 Recordkeeping

1. The permittee shall keep and maintain the following records, all of which must be producible on-site to the Control Officer's authorized representative upon request and without prior notice during the permittee's hours of operation: *[AQR 12.5.2.6(d)(2)]*

Miscellaneous Chemical Usage

a. Monthly, consecutive 12-month total amount of each VOC- and HAP-containing chemical consumed (reported semiannually);

b. Density of each VOC- and HAP-containing chemical consumed;

c. VOC and HAP content of each VOC- and HAP-containing chemical consumed; and

d. Information related to practices outlined in Section 1.11.3.1.

Emissions

e. Deviations from permit requirements that result in excess emissions (reported as required in Section 5.0 of this permit);

f. Deviations from permit requirements that do not result in excess emissions (reported semiannually); and

g. Calendar year annual emissions calculated for each emission unit in this section (reported annually).

2. The permittee shall include in each record above, where applicable, the date and time the monitoring or measurement was taken, the person performing the monitoring or measurement, and the emission unit or location where the monitoring or measurement was performed. Each record must also contain the action taken to correct any deficiencies, when applicable.

3. The permittee shall comply with the general recordkeeping requirements identified in Section 4.0.

1.12 INSIGNIFICANT ACTIVITIES

Units or activities, identified in Section 11.2 of this permit, are present at this source but are insignificant pursuant to AQR 12.5.2.5. The emissions from these units or activities, when added to the PTE of the source, will not make the source major for any additional pollutant.

1.13 NONROAD ENGINES

Pursuant to 40 CFR Part 1068.30, nonroad engines that are portable or transportable (i.e., not used on self-propelled equipment) shall not remain at a location for more than 12 consecutive months; otherwise, the engine(s) will constitute a stationary reciprocating internal combustion engine (RICE) and be subject to the applicable requirements of 40 CFR Part 63, Subpart ZZZZ; 40 CFR Part 60, Subpart IIII; and/or 40 CFR Part 60, Subpart JJJJ. Stationary RICE shall be permitted as emission units upon commencing operation at this stationary source.

Records of location changes for portable or transportable nonroad engines shall be maintained, and shall be made available to the Control Officer upon request. These records are not required for engines owned and operated by a contractor for maintenance and construction activities as long as records are maintained, demonstrating that such work took place at the stationary source for periods of less than 12 consecutive months.

Nonroad engines used on self-propelled equipment do not have this 12-month limitation or the associated recordkeeping requirements.

2.0 VISIBLE EMISSIONS REQUIREMENTS

Visible Emissions [AQR 12.5.2.6(d) & AQR 12.5.2.8]

1. The Responsible Official shall sign and adhere to the department's *Visible Emissions Check Guidebook* and keep a copy of the signed guide on-site at all times.

2. The permittee shall conduct a visual emissions check of each diesel-fired emergency generator and each fire pump whenever it is operated for testing and maintenance, but at least quarterly.

3. The permittee shall conduct a quarterly visual emissions check for visible emissions from external combustion emission units while they are in diesel-fired operation (EUs: RB112 through RB114). If the units are not operating frequently enough for quarterly observations, then observations shall be conducted while the external combustion emission units are operating.

4. The permittee shall conduct a daily visual check for visible emissions from the mineral processing operations while they are in operation.

5. If no plume appears to exceed the opacity standard during the visible emissions check, the date, location, and results shall be recorded, along with the viewer's name.

6. If a plume appears to exceed the opacity standard, the permittee shall do one of the following:

    a. Immediately correct the perceived exceedance, then record the first and last name of the person who performed the emissions check, the date the check was performed, the unit(s) observed, and the results of the observation; or

    b. Call a certified Visible Emissions Evaluation (VEE) reader to perform an EPA Method 9 evaluation.

        i. For sources required to have a certified reader on-site, the reader shall start Method 9 observations within 15 minutes of the initial observation. For all other sources, the reader shall start Method 9 observations within 30 minutes of the initial observation.

        ii. If no opacity exceedance is observed, the certified VEE reader shall record the first and last name of the person who performed the VEE, the date the VEE was performed, the unit(s) evaluated, and the results. A Method 9 VEE form shall be completed for each emission unit that was initially perceived to have exceeded the opacity limit, and the record shall also indicate:

            (1) The cause of the perceived exceedance;

            (2) The color of the emissions; and

            (3) Whether the emissions were light or heavy.

iii. If an opacity exceedance is observed, the certified VEE reader shall take immediate action to correct the exceedance. The reader shall then record the first and last name of the person performing the VEE, the date the VEE was performed, the unit(s) evaluated, and the results. A Method 9 VEE form shall be completed for each reading identified, and the record shall also indicate:

(1) The cause of the exceedance;

(2) The color of the emissions;

(3) Whether the emissions were light or heavy;

(4) The duration of the emissions; and

(5) The corrective actions taken to resolve the exceedance.

7. Any scenario of visible emissions noncompliance can and may lead to enforcement action.

8. The permittee shall determine compliance with the opacity limits for unpaved haul roads when required by the Control Officer in accordance with one of the following, as applicable:

a. 40 CFR Part 60, Appendix A-4, "Test Methods 6 through 10B: Method 9—Visual Determination of the Opacity of Emissions from Stationary Sources"; or

b. The test method set forth in AQR 94.12.4, "Instantaneous Method."

3.0 GENERAL TESTING

1. At the Control Officer's request, the permittee shall test (or have tests performed) to determine emissions of air contaminants from any source whenever the Control Officer has reason to believe that an emission in excess of those allowed by the AQRs is occurring. The Control Officer may specify testing methods to be used in accordance with good professional practice. The Control Officer may observe the testing. All tests shall be conducted by reputable, qualified personnel. *[AQR 4.2]*

2. At the Control Officer's request, the permittee shall provide necessary holes in stacks or ducts and such other safe and proper sampling and testing facilities, except instruments and sensing devices, as may be necessary for proper determination of the emission of air contaminants. *[AQR 4.2]*

3. The permittee shall submit to the Control Officer for approval a performance testing protocol that contains testing, reporting, and notification schedules, test protocols, and anticipated test dates no less than 45 days, but no more than 90 days, before the anticipated date of the performance test unless otherwise specified in this permit. *[AQR 12.5.2.8]*

4. The permittee shall submit to EPA for approval any alternative test methods EPA has not already approved to demonstrate compliance with a requirement under 40 CFR Part 60. *[40 CFR Part 60.8(b)]*

5. The permittee shall submit a report describing the results of each performance test to the Control Officer within 60 days of the end of the test. *[AQR 12.5.2.8]*

6. Performance testing is subject to 40 CFR Part 60.8 (as amended), Subpart A and the department's *Guidelines for Source Testing (9/19/2019)*. Performance testing shall be the instrument for determining initial and subsequent compliance with the emission limitations set forth in sections specified in this permit. *[AQR 12.5.2.8(a)]*

7. The Control Officer will consider approving the permittee's request for alternative performance test methods already approved by EPA if proposed in writing in the performance test protocols. *[AQR 12.5.2.8(a)]*

8. The permittee of any stationary source that fails to demonstrate compliance with emissions standards or limitations during any performance test shall submit a compliance plan to the Control Officer within 90 days of the end of the performance test. *[AQRs 10.1 & 12.5.2.8(a)]*

9. The Control Officer may require additional performance testing when operating conditions appear inadequate to demonstrate compliance with the emissions and/or limitations in this permit. *[AQRs 4.2 & 12.5.2.8(a)]*

4.0 GENERAL RECORDKEEPING

1. The permittee shall keep records of all inspections, maintenance, and repairs, as required by this permit. *[AQRs 12.5.2.6(d) & 12.5.2.8]*

2. All records, logs, etc., or copies thereof, shall be kept on-site for a minimum of five years from the date the measurement or data was entered. *[AQRs 12.5.2.6(d) & 12.5.2.8]*

3. Records and data required by this permit to be maintained by the permittee may be audited at any time by a third party selected by the Control Officer. *[AQR 4.1]*

4. All records the permittee shall create and maintain must be producible on-site to the Control Officer's authorized representative upon request and without prior notice during the permittee's hours of operation. *[AQRs 12.5.2.6(d) & 12.5.2.8]*

5.0 REPORTING AND NOTIFICATIONS

1. The permittee shall certify compliance with the terms and conditions contained in this Part 70 OP, including emission limitations, standards, work practices, and the means for monitoring compliance. *[AQR 12.5.2.8(e)]*

2. The permittee shall submit compliance certifications annually in writing to the Control Officer (4701 W. Russell Road, Suite 200, Las Vegas, NV 89118) and the EPA Region 9 Administrator (Director, Air and Radiation Divisions, 75 Hawthorne St., San Francisco, CA 94105). A compliance certification for each calendar year will be due on January 30 of the following year, and shall include the following: *[AQR 12.5.2.8(e)]*

    a. The identification of each term or condition of the permit that is the basis of the certification;

    b. The identification of the methods or other means used by the permittee for determining the compliance status with each term and condition during the certification period. These methods and means shall include, at a minimum, the monitoring and related recordkeeping and reporting requirements described in 40 CFR Part 70.6(a)(3). If necessary, the permittee shall identify any other material information that must be included in the certification to comply with Section 113(c)(2) of the Clean Air Act, which prohibits knowingly making a false certification or omitting material information; and

    c. The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the methods or means designated in paragraph 2.b above, and shall identify each deviation and take it into account. The certification shall also identify, as possible exceptions to compliance, any periods during which compliance was required and an excursion or exceedance, as defined under 40 CFR Part 64, occurred.

3. The permittee shall report to the Control Officer any startup, shutdown, malfunction, emergency, or deviation that causes emissions of regulated air pollutants in excess of any limits set by regulations or this permit. The report shall be in two parts, as specified below: *[AQRs 12.5.2.6(d)(4)(B) & 25.6.1]*

    a. Within 24 hours of the time the permittee learns of the excess emissions, the permittee shall notify DAQ by phone at (702) 455-5942, by fax at (702) 383-9994, or by email at airquality@clarkcountynv.gov.

    b. Within 72 hours of the notification required in paragraph 3.a, the permittee shall submit a detailed written report to DAQ containing the information required by AQR 25.6.3.

4. Along with the semiannual monitoring report, the permittee shall report to the Control Officer all deviations from permit conditions that do not result in excess emissions, including those attributable to malfunction, startup, or shutdown. Reports shall identify the probable cause of each deviation and any corrective actions or preventative measures taken. *[AQR 12.5.2.6(d)(4)(B)]*

5. The owner or operator of any source required to obtain a permit under AQR 12 shall report to the Control Officer emissions in excess of an applicable requirement or emission limit that pose a potential imminent and substantial danger to public health and safety or the environment as soon as possible, but no later than 12 hours after the deviation is discovered, and submit a written report within two days of the occurrence. *[AQR 25.6.2]*

6. The permittee shall submit all compliance certifications to EPA and to the Control Officer. *[AQR 12.5.2.8(e)(4)]*

7. Any application form, report, or compliance certification submitted to the Control Officer pursuant to the permit or AQRs shall contain a certification by a Responsible Official, with an original signature, of truth, accuracy, and completeness. This certification, and any other required under AQR 12.5, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *[AQR 12.5.2.6(l)]*

8. The permittee shall furnish to the Control Officer, in writing and within a reasonable time, any information that the Control Officer may request to determine whether cause exists for revising, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Control Officer copies of records that the permit requires keeping. The permittee may furnish records deemed confidential directly to the EPA Administrator, along with a claim of confidentiality. *[AQR 12.5.2.6(g)(5)]*

9. At the Control Officer's request, the permittee shall provide any information or analyses that will disclose the nature, extent, quantity, or degree of air contaminants that are or may be discharged by the source, and the type or nature of the control equipment in use. The Control Officer may require that such disclosures be certified by a professional engineer registered in the state. In addition to this report, the Control Officer may designate an authorized agent to make an independent study and report on the nature, extent, quantity, or degree of any air contaminants that are or may be discharged from the source. An agent so designated may examine any article, machine, equipment, or other contrivance necessary to make the inspection and report. *[AQR 4.1]*

10. The permittee shall submit annual emissions inventory reports based on the following: *[AQRs 18.6.1 & 12.5.2.4]*

    a. The annual emissions inventory must be submitted to DAQ by March 31 of each calendar year (if March 31 falls on a Saturday or Sunday, or a Nevada or federal holiday, the submittal shall be due on the next regularly scheduled business day);

    b. The calculated actual annual emissions from each emission unit shall be reported even if there was no activity, along with the total calculated actual annual emissions for the source based on the emissions calculation methodology used to establish the PTE in the permit or an equivalent method approved by the Control Officer prior to submittal; and

    c. As the first page of text, a signed certification containing the sentence: "I certify that, based on information and belief formed after reasonable inquiry, the statements contained in this document are true, accurate, and complete." This statement shall be signed and dated by a Responsible Official of the company (a sample form is available from DAQ).

11. Stationary sources that emit 25 tons or more of NO_x and/or 25 tons or more of VOCs from their emission units, insignificant activities, and exempt activities during a calendar year shall submit an annual emissions statement for both pollutants. Emissions statements must include actual annual NO_x and VOC emissions from all activities, including emission units, insignificant activities, and exempt activities. Emissions statements are separate from, and additional to, the calculated annual emissions reported each year for all regulated air pollutants (i.e., the emissions inventory). *[AQR 12.9.1]*

12. The permittee shall comply with all applicable notification and reporting requirements of 40 CFR Part 60.7; 40 CFR Part 60, Subpart OOO; 40 CFR Part 63, Subpart IIII; 40 CFR Part 63, Subpart ZZZZ; and 40 CFR Part 63, Subpart CCCCC. *[AQR 12.5.2.6(d)]*

13. The permittee shall submit semiannual monitoring reports to DAQ. *[AQRs 12.5.2.6(d) & 12.5.2.8]*

14. The following requirements apply to semiannual reports: *[AQRs 12.5.2.6(d) & 12.5.2.8]*

    a. The report shall include the item(s) listed in recordkeeping subsections of corresponding processes in Section 1.

    b. The report shall be based on a calendar semiannual period, which includes partial reporting periods.

    c. DAQ shall receive the report within 30 calendar days of the end of the semiannual period.

15. Regardless of the date of issuance of this OP, the source shall comply with the schedule for report submissions outlined in Table 5-1. *[AQRs 12.5.2.6(d) & 12.5.2.8]*

Table 5-1: Required Submission Dates for Various Reports

Required Report	Applicable Period	Due Date
Semiannual report for 1st six-month period	January, February, March, April, May, June	July 30 each year[1]
Semiannual report for 2nd six-month period; any additional annual records required	July, August, September, October, November, December	January 30 each year[1]
Semiannual 40 CFR 63.5910 Compliance Report for 1st half of the year	January, February, March, April, May, June	July 31 each year[1]
Semiannual 40 CFR 63.5910 Compliance Report for 2nd half of the year	July, August, September, October, November, December	January 31 each year[1]
Annual Compliance Certification	Calendar year	January 30 each year[1]
Annual Emissions Inventory Report	Calendar year	March 31 each year[1]
Annual Emissions Statement[2]	Calendar year	March 31 each year[1]
Notification of Malfunctions, Startup, Shutdowns, or Deviations with Excess Emission	As required	Within 24 hours of the permittee learns of the event
Excess Emissions that Pose a Potential Imminent and Substantial Danger	As required	No less than 45 days, but no more than 90 days, before the anticipated test date[1]
Report of Malfunctions, Startup, Shutdowns, or Deviations with Excess Emission	As required	Within 72 hours of the notification
Deviation Report without Excess Emissions	As required	Along with semiannual reports[1]
Performance Testing Protocol	As required	No less than 45 days, but no more than 90 days, before the anticipated test date[1]
Performance Testing	As required	Within 60 days of end of test[1]

[1]If the due date falls on a federal or Nevada holiday, or on any day the office is not normally open for business, the submittal is due on the next regularly scheduled business day.
[2] Required only for stationary sources that emit 25 tons or more of NO_X and/or 25 tons or more of VOCs during a calendar year.

16. The Control Officer reserves the right to require additional reporting to verify compliance with permit emission limits, applicable permit requirements, and requirements of applicable federal regulations. *[AQR 4.1]*

6.0 MITIGATION

The source has no federal offset requirements. *[AQR 12.7]*

7.0 PERMIT SHIELD

The source has not requested a permit shield. *[AQR 12.5.2.9]*

8.0 ACID RAIN PROGRAM REQUIREMENTS

The source is not subject to Acid Rain Program requirements.

9.0 OTHER REQUIREMENTS

1. Any person who violates any provision of the AQRs, including, but not limited to, any application requirement; any permit condition; any fee or filing requirement; any duty to allow or carry out inspection, entry, or monitoring activities; or any requirements from DAQ is guilty of a civil offense and shall pay a civil penalty levied by the Air Pollution Control Hearing Board and/or the Hearing Officer of not more than $10,000. Each day of violation constitutes a separate offense. *[AQR 9.1; NRS 445B.640]*

2. Any person aggrieved by an order issued pursuant to AQR 9.1 is entitled to review, as provided in Chapter 233B of the Nevada Revised Statutes (NRS). *[AQR 9.12]*

3. The permittee shall comply with the requirements of Title 40, Part 61 of the Code of Federal Regulations (40 CFR Part 61), Subpart M—the National Emission Standard for Asbestos—for all demolition and renovation projects. *[AQR 13.1(b)(8)]*

4. The permittee shall not use, sell, or offer for sale any fluid as a substitute material for any motor vehicle, residential, commercial, or industrial air conditioning system, refrigerator freezer unit, or other cooling or heating device designated to use a Class I or Class II ozone-depleting substance or any nonexempt substitute refrigerant as a working fluid, unless such fluid has been approved for sale in such use by the EPA Administrator. The permittee shall keep records of all paperwork relevant to the applicable requirements of 40 CFR Part 82 on-site. *[40 CFR Part 82]*

5. A risk management plan is required for the storing, handling and use of an applicable "Highly Hazardous Chemical" pursuant to 40 CFR Part 68. The permittee shall submit revisions of the risk management plan to the appropriate authority and a copy to DAQ. *[40 CFR Part 68.150(b)(3)]*

10.0 ADMINISTRATIVE REQUIREMENTS

10.1 GENERAL

1. The permittee shall comply with all conditions of the Part 70 OP. Any permit noncompliance may constitute a violation of the Clark County Air Quality Regulations, Nevada law, and the Clean Air Act, and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a renewal application. *[AQR 12.5.2.6(g)(1)]*

2. If any term or condition of this permit becomes invalid as a result of a challenge to a portion of this permit, the other terms and conditions of this permit shall be unaffected and remain valid. *[AQR 12.5.2.6(f)]*

3. The permittee shall pay all permit fees pursuant to AQR 18. *[AQR 12.5.2.6(h)]*

4. This permit does not convey property rights of any sort, or any exclusive privilege. *[AQR 12.5.2.6(g)(4)]*

5. The permittee agrees to allow inspection of the premises to which this permit relates by any authorized representative of the Control Officer at any time during the permittee's hours of operation without prior notice. The permittee shall not obstruct, hamper, or interfere with any such inspection. *[AQRs 4.1, 5.1.1, & 12.5.2.8(b)]*

6. The permittee shall allow the Control Officer, upon presentation of credentials, to: *[AQRs 4.1 & 12.5.2.8(b)]*

    a. Access and copy any records that must be kept under the conditions of the permit;

    b. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;

    c. Sample or monitor substances or parameters for the purpose of assuring compliance with the permit or applicable requirements; and

    d. Document alleged violations using such devices as cameras or video equipment.

7. Any permittee who fails to submit relevant facts, or who has submitted incorrect information in a permit application, shall, upon becoming aware of such failure or incorrect submittal, promptly submit the needed supplementary facts or corrected information. In addition, the permittee shall provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit. A Responsible Official shall certify the additional information consistent with the requirements of AQR 12.5.2.4. *[AQR 12.5.2.2]*

8. Anyone issued a permit under AQR 12.5 shall post it in a location where it is clearly visible and accessible to facility employees and DAQ representatives. *[AQR 12.5.2.6(m)]*

9. The permittee shall not use as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[AQR 12.5.2.6(g)(2)]*

10.2 MODIFICATION, REVISION, AND RENEWAL REQUIREMENTS

1. No person shall begin actual construction of a new Part 70 source, or modify or reconstruct an existing Part 70 source that falls within the preconstruction review applicability criteria, without first obtaining an ATC Permit from the Control Officer. *[AQR 12.4.1.1(a)]*

2. This permit may be revised, revoked, reopened and reissued, or terminated for cause by the Control Officer. The filing of a request by the permittee for a permit revision, revocation, reissuance, or termination, or of a notification of planned changes or anticipated noncompliance, does not stay any permit condition. *[AQR 12.5.2.6(g)(3)]*

3. The permit shall be reopened under any of the following circumstances and when all applicable requirements pursuant to AQR 12.5.2.15 are met: *[AQR 12.5.2.15(a)]*

    a. New requirements become applicable to a stationary source considered "major" (per the definition in AQR 12.2, AQR 12.3, or 40 CFR Part 70.3(a)(1)) with a remaining permit term of three or more years;

    b. Additional requirements (including excess emissions requirements) become applicable to an affected source under the Acid Rain Program;

    c. The Control Officer or EPA determines that the permit contains a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or

    d. The EPA Administrator or the Control Officer determines that the permit must be revised or revoked to assure compliance with applicable requirements.

4. A permit, permit revision, or renewal may be approved only if all of the following conditions have been met: *[AQR 12.5.2.10(a)]*

    a. The permittee has submitted to the Control Officer a complete application for a permit, permit revision, or permit renewal (except that, pursuant to AQR 12.5.2.20, a complete application need not be received before a Part 70 general permit is issued); and

    b. The conditions of the permit provide for compliance with all applicable requirements and the requirements of AQR 12.5.

5. The permittee shall not build, erect, install, or use any article, machine, equipment, or other contrivance, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission that would otherwise constitute a violation of an applicable requirement. *[AQR 80.1; 40 CFR Part 60.12]*

6. No permit revisions shall be required under any approved economic incentives, marketable permits, emissions trading, and other, similar programs or processes for changes that are provided for in the permit. *[AQR 12.5.2.6(i)]*

7. Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application has been submitted. *[AQR 12.5.2.11(b)]*

8. For purposes of permit renewal, a timely application is a complete application that is submitted at least six months, but not more than 18 months, prior to the date of permit expiration. If a source submits a timely application under this provision, it may continue operating under its current Part 70 OP until final action is taken on its application for a renewed Part 70 OP. *[AQR 12.5.2.1(a)(2)]*

11.0 ATTACHMENTS

11.1 APPLICABLE REGULATIONS

Requirements Specifically Identified as Applicable

1. NRS Chapter 445B.

2. Applicable AQRs listed in Table 11.1-1.

Table 11.1-1: Applicable Clark County AQRs

Citation	Title
AQR 00	"Definitions"
AQR 02	"Air Pollution Control Board"
AQR 04	"Control Officer"
AQR 05	"Interference with Control Officer"
AQR 06	"Injunctive Relief"
AQR 07	Hearing Board and Hearing Officer"
AQR 08	"Persons Liable for Penalties – Punishment: Defense"
AQR 09	"Civil Penalties"
AQR 10	"Compliance Schedules"
AQR 11	"Ambient Air Quality Standards"
AQR 12.0	"Applicability and General Requirements"
AQR 12.2	"Permit Requirements for Major Sources in Attainment Areas"
AQR 12.4	"Authority to Construct Application and Permit Requirements for Part 70 Sources"
AQR 12.5	"Part 70 Operating Permit Requirements"
AQR 12.6	"Confidentiality"
AQR 12.7	"Emission Reduction Credits"
AQR 12.9	"Annual Emissions Inventory Requirement"
AQR 12.10	"Continuous Monitoring Requirements for Stationary Sources"
AQR 12.12	"Transfer of Permit"
AQR 12.13	"Posting of Permit"
AQR 13.2(b)(1)	"Subpart A - General Provisions"
AQR 13.2(b)(82)	"Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines"
AQR 13.2(b)(105)	"Subpart BBBBBB – National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities"
AQR 13.2(b)(106)	"Subpart CCCCCC - National Emissions Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities"
AQR 14.1(b)(1)	"Subpart A – General Provisions"
AQR 14.1(b)(13)	"Subpart I – Standards of Performance for Hot Mix Asphalt Facilities"
AQR 14.1(b)(68)	"Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants"
AQR 14.1(b)(81)	"Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines"

Citation	Title
AQR 14.1(b)(82)	“Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines”
AQR 18	“Permit and Technical Service Fees”
AQR 25	“Affirmative Defense for Excess Emissions due to Malfunctions, Startup, and Shutdown”
AQR 26	“Emission of Visible Air Contaminants”
AQR 27	“Particulate Matter from Process Weight Rate”
AQR 28	“Fuel Burning Equipment”
AQR 40	“Prohibitions of Nuisance Conditions”
AQR 41	“Fugitive Dust”, AQR 41.1.1
AQR 42	“Open Burning”
AQR 43	“Odors in the Ambient Air”
AQR 50	“Storage of Petroleum Products”
AQR Section 52 (SIP Requirement)	“Gasoline Dispensing Facilities”
AQR 70.4	“Emergency Procedures”
AQR 80	“Circumvention”
AQR 81	“Provisions of Regulations Severable”
AQR 92	“Fugitive Dust from Unpaved Parking Lots and Storage Areas”
AQR 94	“Permitting and Dust Control for Construction Activities”

3. Clean Air Act Amendments (42 U.S.C. § 7401, et seq.)

4. Applicable 40 CFR sections listed in Table 11.1-2.

Table 11.1-2: Federal Standards

Citation	Title
40 CFR Part 52.21	“Prevention of significant deterioration of air quality”
40 CFR Part 52.1470	“Approval and Promulgation of Implementation Plans, Subpart DD—Nevada”
40 CFR Part 60, Subpart A	“General Provisions”
40 CFR Part 60, Subpart I	“Standards of Performance for Hot Mix Asphalt Facilities”
40 CFR Part 60, Subpart OOO	“Standards of Performance for Nonmetallic Mineral Processing Plants”
40 CFR Part 60, Subpart IIII	“Standards of Performance for Stationary Compression Ignition Internal Combustion Engines”
40 CFR Part 60, Subpart JJJJ	“Standards of Performance for Stationary Spark Ignition Internal Combustion Engines”
40 CFR Part 60	Appendix A, Method 9 or equivalent, (Opacity)
40 CFR Part 63, Subpart A	“General Provisions”
40 CFR Part 63, Subpart ZZZZ	“National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines”
40 CFR Part 63, Subpart BBBBBB	“National Emission Standard for Hazardous Air Pollutants – Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities”

Citation	Title
40 CFR Part 63, Subpart CCCCCC	"National Emissions Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities"
40 CFR Part 63, Subpart JJJJJJ	"National Emission Standard for Hazardous Air Pollutants – Industrial, Commercial, and Institutional Boilers Area Sources"
40 CFR Part 70	"State Operating Permit Programs"
40 CFR Part 82	"Protection of Stratospheric Ozone"

Table 11.1-3: Table 2 to Subpart CCCCCC of Part 63

Applicability Criteria and Management Practices for Gasoline Cargo Tanks Unloading at Gasoline Dispensing Facilities With Monthly Throughput of 100,000 Gallons of Gasoline or More

If you own or operate	Then you must
A gasoline cargo tank	Not unload gasoline into a storage tank at a GDF subject to the control requirements in this subpart unless the following conditions are met:
	(i) All hoses in the vapor balance system are properly connected,
	(ii) The adapters or couplers that attach to the vapor line on the storage tank have closures that seal upon disconnect,
	(iii) All vapor return hoses, couplers, and adapters used in the gasoline delivery are vapor-tight,
	(iv) All tank truck vapor return equipment is compatible in size and forms a vapor-tight connection with the vapor balance equipment on the GDF storage tank, and
	(v) All hatches on the tank truck are closed and securely fastened.
	(vi) The filling of storage tanks at GDF shall be limited to unloading by vapor-tight gasoline cargo tanks. Documentation that the cargo tank has met the specifications of EPA Method 27 shall be carried on the cargo tank.

11.2 INSIGNIFICANT ACTIVITIES

Table 11.2-1: List of Insignificant Fuel Storage Tanks, Fuel Loading, and Fuel Dispensing

Building Number	Tank Name	Tank Type	Manufacturer	Model Number	Serial Number	Capacity (gal)	Fuel
Insignificant Diesel Tanks							
2	AST w/G001	AST	Containment Solutions	LDP2-50P	732732	250	Diesel
6	AST w/G002	AST	Containment Solutions	LP1000	P-472390	1,000	Diesel
47	Belly Tank w/G003	AST	Onan	159-1464	ODT-29786	145	Diesel
98	AST w/G094	AST	Superior	2-900-LUG	Unknown	1,500	Diesel
119	Belly Tank w/G139	AST	Clay and Bailey	MTU12V1600DS600	95010600944	455	Diesel
180	B180_1_250gal_diesel	AST	Containment Solutions	LDP250P	M732749	250	Used Oil
180	B180_2_250gal_diesel	AST	Containment Solutions	LDP250P	M732748	250	Diesel
199	AST w/G004	AST	Containment Solutions	LP250P	N-600205	250	Diesel
200	AST w/G005, G006, G007	AST	Hoover Containment Systems	M-224257	M224257	5,021	Diesel
201	AST w/G008	AST	Hoover Containment Systems	UL1305	M-1305	9,871	Diesel
202	Belly Tank w/G009	AST	Chillicothe Metal Company	N685106	03-15320	4,000	Diesel
214	Belly Tank w/G090	AST	United Alloy Inc	CPG A034Y209	D-711597	415	Diesel
216	AST w/G011	AST	Convault	CVT20003DFBDAU	982165	2,000	Diesel
276	AST w/G014	AST	Hoover	NA	NA	2,500	Diesel
277	B277_250gal_Diesel	AST	Containment Solutions	LDP250 P	M-732747	250	Diesel
277	AST w/G091	AST	Containment Solutions	LDP250 P	M-600204	250	Diesel
278	AST w/G092	AST	Containment Solutions	LDP250 P	M-732731	250	Diesel
282	Belly Tank w/G085	AST	United Alloy Inc	CPG A029X194	D-649,415	110	Diesel

Building Number	Tank Name	Tank Type	Manufacturer	Model Number	Serial Number	Capacity (gal)	Fuel
328	Belly Tank w/G130	AST	United Alloy Inc.	CPGA035E768	D-858907	335	Diesel
328	AST	AST	United Alloy Inc.	CPGA035E768	D-858907	1,500	Diesel
423	Belly Tank W/G131	AST	Tramonte	A030U020	43192	850	Diesel
620	AST w/G021	AST	Containment Solutions	LDP1000P	M900719	1,000	Diesel
696	AST	AST	United Alloy, Inc	CPG A045T342	E95031874	1000	Diesel
698	Belly Tank w/G095	AST	United Power Production	CPG 0159-1464	637440	145	Diesel
801	Belly Tank w/G140	AST	Onan	159-1412	ODT-30388	79	Diesel
805	AST w/G167	AST	Containment Solutions	LDP250P	M-732740	250	Diesel
807	AST w/G022a	AST	Containment Solutions	LDP250P	M-732740	250	Diesel
807	AST_1000gal_Diesel	AST	Containment Solutions	LP1000	927129	1,000	Diesel
812	AST w/G024	AST	Containment Solutions	LDP250P	M-732745	250	Diesel
814	AST w/G025	AST	Containment Solutions	LDP250P	M-732735	250	Diesel
822	AST w/G077	AST	Containment Solutions	LDP250P	M-732733	250	Diesel
843	AST w/G103	AST	Freeman Enclosures	UTBD-843	S-44012	500	Diesel
843	Belly Tank w/G087	AST	United Alloy Inc.	CPGA029X194	D-649,404	110	Diesel
843	B843 AST_500gal_Used Oil	AST	Containment Solutions	LDP500P	900470	500	Diesel
856	AST w/G028	AST	Containment Solutions	LDP250P	M732743	250	Diesel
875	B875_120gal_diesel	AST	Containment Solutions	80293	663066	120	Diesel
878	Belly Tank w/G084	AST	United Alloy Inc.	CPG A029X194	D-649417	110	Diesel
890	AST w/G029	AST	Containment Solutions	LP500P	927103	500	Diesel
890	UST_25000gal_Diesel	UST	NA	NA	NA	25,000	Diesel
893	B893 AST_20000gal_Diesel	AST	Joor Manufacturing	NA	U-176373	20,000	Diesel

Building Number	Tank Name	Tank Type	Manufacturer	Model Number	Serial Number	Capacity (gal)	Fuel
895	B895 AST_20000gal_Diesel	AST	Joor Manufacturing	NA	671896	20,000	Diesel
907	AST w/G142	AST	Containment Solutions	LDPV4AA101MVS001	S-389295	1,000	Diesel
1050	AST w/G069	AST	Containment Solutions	LP 3000	927143	3,000	Diesel
1054	B1054_500gal_diesel	AST	Containment Solutions	LP500P	600346	500	Diesel
1058	Belly Tank w/G124	AST	United Alloy	159-142	ODT-30390	79	Diesel
1114	Belly Tank w/G102	AST	United Alloy Inc	CPGA029X194	D-64922	110	Diesel
1300	Belly Tank w/ New Hospital Gen 1	AST	United Alloy Inc	CAT 509-9457	C-96914579	162	Diesel
1300	Belly Tank w/ New Hospital Gen 2	AST	Western-Global	20TCG	A61281780	528	Diesel
1301	Belly Tank w/G032	AST	Caterpillar	NA	5TD01144	300	Diesel
1301	Belly Tank w/G033	AST	Caterpillar	NA	5TD01145	300	Diesel
1301	B1301_UST1	UST	NA	NA	UTBD-3	15,000	Diesel
1301	B1301_UST2	UST	NA	NA	UTBD-2	15,000	Diesel
1590	B1590 AST_500gal_Diesel	AST	Brown-Minneapolis Tank	NA	672287	500	Diesel
1602	Belly Tank w/G034	AST	Onan	159-1463	0DT-12063	100	Diesel
1602	AST w/G034	AST	Containment Solutions	LDP 250P	M-732744	250	Diesel
1606	AST w/G035a	AST	Containment Solutions	LP500P	N-927073	500	Diesel
1705	Belly Tank w/G132	AST	United Power Products	A029D438	D-459818	308	Diesel
1722	Belly Tank w/G125	AST	Onan	159-1412	ODT-15373	79	Diesel
1724	Belly Tank w/G120	AST	Onan	159-1412	ODT-30462	79	Diesel
1730	Belly Tank w/G097	AST	Caterpillar	P859782	U-211881	193	Diesel
1740	Belly Tank w/G080	AST	United Power Products	0159-1757	665157	308	Diesel
1998	AST w/G036	AST	Containment Solutions	LP250P	N600203	250	Diesel
2060	AST w/G181	AST	Pyrco	PY25ULDW	11050775	25	Diesel
2069	AST w/G067	AST	Containment Solutions	LP1000	N-927126	1,000	Diesel

Building Number	Tank Name	Tank Type	Manufacturer	Model Number	Serial Number	Capacity (gal)	Fuel
2336 (Revetments)	Belly Tank w/G163	AST	United Alloy Inc.	CAT 463-2726	B-52795981	693	Diesel
2340	Belly Tank w/G040	AST	Onan	159-1463	ODT-18031	100	Diesel
2340	AST w/G040	AST	Containment Solutions	LDP500P	M-732819	500	Diesel
2345	AST w/G068	AST	Flame Shield	MH1049	FS016623	2,000	Diesel
2353	Belly Tank w/G129	AST	Victory Industrial Products	MH17934	212958	150	Diesel
2354	Belly Tank w/G128	AST	United Alloy, Inc.	458669	D-610741	110	Diesel
2961	B2961_300gal_diesel	AST	Steel Tank Institute	Fire Guard	43507	300	Diesel
10005	AST w/G169	AST	Hennig	CPG-A053L909	U-251414	256	Diesel
10113	AST w/G073	AST	Stanwade Metal Products	P887427	FS 016625	200	Diesel
10113	AST	AST	Steel Tank Institute	MH1049	FS016625	200	Diesel
10215	AST w/G136	AST	Freeman Enclosure Systems	13720113	S784033	350	Diesel
10215	B10215_247gal_diesel	AST	CAT	392-8555	C-54024765	247	Diesel
10215	AST	AST	Freeman	13720113	Unknown	335	Diesel
10307	AST w/G041	AST	Convault	CVT10000	982142	10,000	Diesel
10460	AST w/G149	AST	Arrow Tank Works	NA	NA	100	Diesel
10512	AST	AST	Isom Brothers, Inc.	RIVS1230-2	L825.016	150	Diesel
10512 (10511-1)	AST_6000gal_Diesel	AST	Isom Brothers	RIVS 1230 2	L-825.016	6,000	Diesel
61663	AST w/G046	AST	Containment Solutions	LDP1000P	M762342	1,000	Diesel
61664	AST w/G047	AST	Containment Solutions	LDP500P	M-900720	500	Diesel
61672	AST w/G048	AST	Containment Solutions	LP250P	N600202	250	Diesel
61672	AST w/G049	AST	Containment Solutions	LP250P	N600206	250	Diesel

Building Number	Tank Name	Tank Type	Manufacturer	Model Number	Serial Number	Capacity (gal)	Fuel
61683	AST w/G157	AST	WE-MAC Manufacturing	NA	D872740	119	Diesel
61697	AST w/G050	AST	Convault	80003SF	925816	8,000	Diesel
61697	B61697_120gal_diesel	AST	Containment Solutions	80293	A60-663067	120	Diesel
62120	Belly Tank w/ EU G051	AST	NA	242-8291	58806	250	Diesel
T10215	AST	AST	United Alloy, Inc.	CAT 392-8555	C-54024765	240	Diesel
Aggregate Plant	Aggregate Plant AST_500gal_Diesel	AST	Containment Solutions	LP500P	927121	500	Diesel
Asphalt Plant	AST	AST	Unknown	LP500P	N-927121	693	Diesel
Concrete Plant	Belly Tank w/A053	AST	Tramont	279-7029	79608	660	Diesel
Mineral Processing	Belly Tank w/A076	AST	NA	NA	U-211886	500	Diesel
Insignificant Waste Oil Storage Tanks							
831	B831_AST	AST	Containment Solutions	LP1000	P-470059	1,000	Waste Oil
10148	AST	AST	Onken	2237-240G	24082	200	Waste Oil
61633	61633_Hush House Oil Tank	AST	Steel Tank Institute	Fireguard	37835	450	Waste Oil
61637	61637_Hush House Oil Tank	AST	Steel Tank Institute	Fireguard	37834	450	Waste Oil
Insignificant Jet Fuel Tanks							
2336 (Revetments)	Revetments AST - Jet Fuel Reclaim	AST	Highland Tank	NA	A61611368	4,000	Jet Fuel
191	B191 AST_Fuel Cell1	AST	McDonnell Douglas	68A550600	BB54824	600	Jet Fuel
191	B191 AST_Fuel Cell2	AST	McDonnell Douglas	68A550600	NA	600	Jet Fuel
194	B194_1000gal_diesel	AST	Paramount Tank, Inc.	306AL	17413	1,000	Jet Fuel
235	B235 AST_5000gal_JetFuel	AST	Industrial Environmental Supply, Inc.	L387280	SB500030U0595	5,000	Jet Fuel

Building Number	Tank Name	Tank Type	Manufacturer	Model Number	Serial Number	Capacity (gal)	Fuel
267	B267 UST_10000gal_JetFuel	UST	Brown Minneapolis Tank	NA	NA	10,000	Jet Fuel
1050	B1050 AST_280gal_JetFuel	AST	Containment Solutions, Inc.	NA	603885	280	Jet Fuel
1050	B1050 AST_500gal_JetFuel2	AST	Containment Solutions	LP500P	600346	500	Jet Fuel
1051/1052	B1051_B1052_AST_500gal_JetFuel2	AST	Containment Solutions	LP500P	600347	500	Jet Fuel
2074	AST	AST	Highland Tank	242-8291	U-211885	2,000	Jet Fuel
61633	AST	AST	Steel Tank Institute	AHT6368- B	202008017	50	Jet Fuel
61633/1	B61633/1_AST_2500gal_JetFuel	AST	Celtech Corp	20-9500-1	200807008	2,500	Jet Fuel
61633/2	B61633/2AST_5000gal_JetFuel	AST	Allan U Bevier Inc.	28600	7302K	5,000	Jet Fuel
61637 (Hush House)	AST_8000gal_JetFuel	AST	Highland Tank	AHT636381A	202001003	8,000	Jet Fuel
61637/1	B61637/1_AST_2500gal_JetFuel	AST	Youngs Tank	D-230	1Y9B4AA04K2002478	2,500	Jet Fuel
61637/2	AST_5000gal_JetFuel	AST	Allan U Bevier Inc.	NA	D7119	5,000	Jet Fuel
62123	UST_4000gal_JetFuel	UST	NA	NA	NA	4,000	Jet Fuel
61647A	B61647A_UST - Off Spec Fuel	UST	Joor Manufacturing	NA	U-181909	5,000	Jet Fuel
61647B	B61647B_UST - Off Spec Fuel	UST	Joor Manufacturing	NA	U-181911	5,000	Jet Fuel
61647C	B61647C_UST - Off Spec Fuel	UST	Joor Manufacturing	NA	NA	5,000	Jet Fuel
61647D	B61647D_UST - Off Spec Fuel	UST	Joor Manufacturing	NA	U-228255	5,000	Jet Fuel
62120 West Side Hydrant	Product Recovery UST	UST	NA	NA	U-187041	4,000	Jet Fuel
2074 (Kinder Morgan)	B2074_AST	AST	Secondary Containment	0058-23-01-S0915	262027	2,000	Jet Fuel

Building Number	Tank Name	Tank Type	Manufacturer	Model Number	Serial Number	Capacity (gal)	Fuel
Insignificant Diesel Fuel Loading							
893	NA	1Loading Rack	NA	NA	NA	NA	Diesel
893/895	NA	1Loading Rack	NA	NA	NA	NA	Diesel
Insignificant Jet Fuel Loading							
941/1050	NA	50 Racks	NA	NA	NA	NA	Jet Fuel
Insignificant Diesel Fuel Dispensing							
807	NA	Fuel Dispensing	NA	NA	NA	NA	Diesel
856	NA	Fuel Dispensing	Gasboy	Atlas	NA	NA	Diesel
890	NA	Fuel Dispensing	NA	NA	NA	NA	Diesel
1590	NA	Fuel Dispensing	NA	NA	NA	NA	Diesel
10511	NA	Fuel Dispensing	NA	NA	NA	NA	Diesel
Insignificant Jet Fuel Dispensing							
235	NA	Fuel Dispensing	Bennett	C27S-GECATPNN-USA	12E632746	NA	Jet Fuel
267	NA	Fuel Dispensing	NA	NA	NA	NA	Jet Fuel
2195	NA	Fuel Dispensing	NA	NA	NA	NA	Jet Fuel

Table 11.2-2: Insignificant Degreasers[1]

Building	Manufacturer	Model	Serial Number	Capacity (gal)
270	Sting Ray Parts Washer	3032	8591	130
831	AaLadin	2085ESS	84115	85
861	Sharpertek	SH-Series 18G	010018-0076	18
e	Chemfree/ Smart Wash	SW-23	A028110	NA
61664	Cuda Aqueouse Washer	H20-2848	10434220-100478	50
180	Clarus	PCS-25	001941	25
270	Clarus	PCS-25	G0169	27.5
270	Graymills	A-42618-A	285584-06	75
270	Graymills	TR24	304175-03	47
442	Clarus	PCS-25	001528	27.5
807	Clarus	PCS-25	001925	27.5
858	Clarus	PCS-15	6850002745421	27.5
858				7
10304	Chemfree Corporation/ SmartWasher	28-1	2104701	25
10304	Chemfree Corporation/ SmartWasher	28-1	2104700	25
10304	JenFab	Avenger	03102068	20
10569	ChemFree Corporations/ SmartWasher	28-1	2101511	25

[1]Units are insignificant as the only solvents used contain no VOC or HAP content per the Material Safety Sheet.

Table 11.2-3: Insignificant Surface Coating[1]

Building	Make	Model No.	Serial No.	Capacity
Various Locations	Preval sprayer (touch-up painting)			
Various Location	Aerosol painting of vehicle parts			

[1]The emissions from these activities will be tracked using EESOH-MIS and the emissions will be reported as part of the miscellaneous chemical source category in this permit.

Table 11.2-4: List of Insignificant Media Blasting Units

Building	Description	Make	Model No.	Serial No.
424	Media Blaster	Empire	4652	203587
252	Media Blaster	Cyclone Manufacturing	3624	8120
255	Media Blaster	Pauli Systems Inc.	RAM11	011176
256	Media Blaster	Clemco	BNP DBL 220P 900 CDC 230V	Z58289
423	Media Blaster	Cyclone Manufacturing	4826	7705
442	Media Blaster	MaxiBlast	DELUXE-1	96X48SL
474	Media Blaster	Snap-On USA	YA437	NA

Building	Description	Make	Model No.	Serial No.
807	Media Blaster	ALC Abrasive Blasting	40400	NA
858	Media Blaster	Trinco Trinity Tool Company	40X40SL/PC	66752-8
10119	Media Blaster	Snap-On USA	YA-437	041HMAT2002273
10144	Media Blaster	Paul Griffen	PRAM 101020	0092
10305	Media Blaster	ECO Blast	50-2	50-725-4410